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Abyssal Boundary Current Studies
Current Measurements
North of the Farland Plateau
January 1986 - April 1987

by

R. Dale Pillsbury
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Data Report 147
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September 1989

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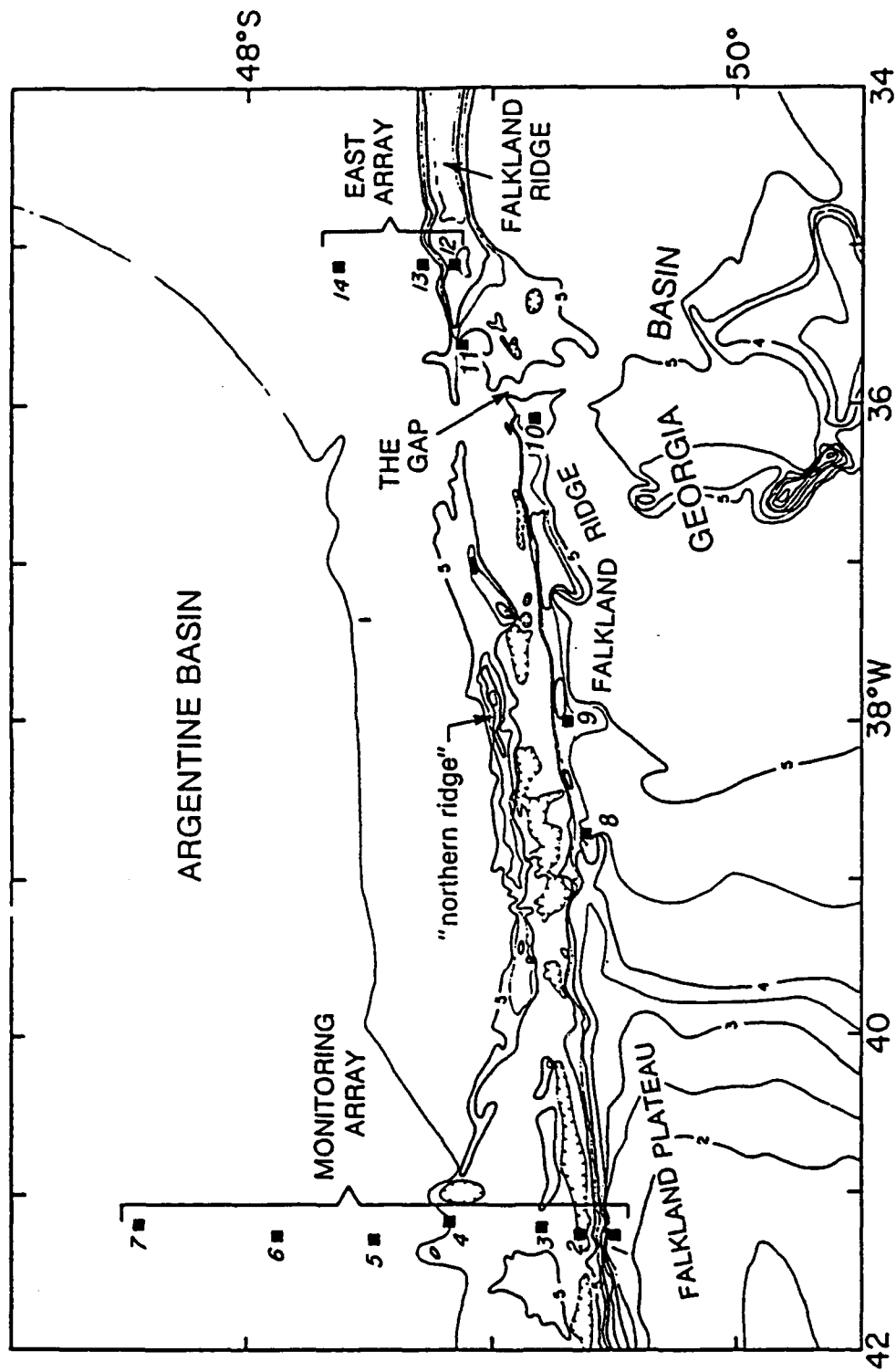


Figure 1. Geographical location of Abyssal Boundary Current Studies Moorings. January 1987 - April 1988.

INTRODUCTION

The data described in this report were collected in support of the program, Abyssal Boundary Current Studies, funded by the National Science Foundation. This program was designed to improve our understanding of the structure and variability of the deep western boundary currents and to estimate their transport of heat and mass. Some of these deep western boundary currents are formed by the northward flow of the Antarctic Bottom Water along the eastern margins of the southern continents and ridges. In particular these data are from the energetic flow of this Bottom Water entering the South Atlantic.

The Weddell Sea is an important formation region for the Bottom Water, some of which flows north through the Georgia Basin and into the South Atlantic. Other portions of the newly formed bottom water may flow to the east of the ridge system containing the Falkland Plateau, Ewing Bank, Falkland Ridge and the Islas Orcadas Rise. At the north-eastern corner of the ridge system the flow (if present) turns west along the ridge system and becomes part of the clock-wise deep circulation in the Argentine Basin.

The moored array shown in Figure 1 was designed to measure this flow to the west. The monitoring array was to the west of the Falkland Channels (shown as the "Gap") and measured flow from the Weddell Sea passing either through the "Gap" or around the eastern end of the ridge system. The East Array should measured the flow around the eastern end of the ridge system. Other moorings were placed to measure flow directly in the "Gap". Latitudes,, longitudes and bottom depths of the moorings are shown in Table 1.

The arrays were deployed in early 1986 and recovered in 1987. The design, installation and recovery of the array, like other parts of the program, was a joint effort by scientists and technicians from Oregon State University, Texas A&M University and the Argentine Antarctic Institute. The moored array consisted of 61 Aanderaa current meters suspended from more than 30,000 meters of dacron line supported by 416 44-centimeter glass balls. Recoveries were frequently hampered by severe weather. The *R/V Conrad* spent a total of 6 days hove-to in seas of up to 12 meters and winds that gusted to 60 knots. Mooring retrieval was also complicated by the malfunction of three acoustic releases. Moorings 2, 3, and 5 were recovered by severing the mooring line with 8000 meters of trawl wire towed behind the *Conrad*. Once mooring tension was thus relieved, the releases operated, and all instrumentation was recovered.

| Moorings | Latitude | Longitude | Bottom Depth (Meters) |
|----------|------------|------------|--------------------------|
| 1 | 49°29.60'S | 41°16.20'W | 2509 |
| 2 | 49°21.03'S | 41°18.30'W | 5574 |
| 3 | 49°11.00'S | 41°12.99'W | 4999 |
| 4 | 48°50.00'S | 41°10.25'W | 5408 |
| 5 | 48°31.00'S | 41°18.61'W | 6014 |
| 6 | 48°07.00'S | 41°17.00'W | 5889 |
| 7 | 47°28.90'S | 41°13.60'W | 5964 |
| 8 | 49°23.14'S | 38°42.53'W | 4493 |
| 9 | 49°18.63'S | 38°00.57'W | 4443 |
| 10 | 49°09.81'S | 36°06.73'W | 4888 |
| 11 | 48°52.44'S | 35°40.67'W | 5173 |
| 12 | 48°50.85'S | 35°09.30'W | 3543 |
| 13 | 48°43.07'S | 35°09.60'W | 5367 |
| 14 | 48°21.70'S | 35°08.19'W | 5258 |

Table 1. Latitudes, longitudes and bottom depths of ABC's Moorings.

SAMPLING AND PROCESSING INFORMATION

All moorings consisted of Aanderaa RCM 4 or RCM 5 current meters equipped to record speed, direction, and temperature, with some meters equipped to record conductivity, and/or pressure. The speed record from Aanderaa meters is based on the rotor count during the sampling interval. The nominal threshold of the Aanderaa speed sensor is 1.75 cm/sec. In processing, a zero in the speed sensor is set equal to 0.8 cm/sec, i.e., half the threshold. Direction, temperature, pressure, and conductivity are instantaneous measurements at the end of the sampling interval.

Data from the current meter tapes are transformed into binary numbers in the range [0, 1023] and each data record is assigned a time in Universal Coordinated Time (UCT). This product is known as the dated raw file. The sensors are routinely calibrated before and after deployment. The dated raw file, together with the calibration information, is then processed into metric units. Smith et al. (1986) reviewed the calibration procedure used with Aanderaa current meters. To form the LLP (6-hourly) records, the hourly records were filtered with a 60 + 1 + 60 point Cosine-Lanczos filter with half-amplitude at 40 hours and half-power at 46.6 hours. The data are

then resampled at 6-hour intervals.

Depths were obtained by one of two methods. Meters equipped with pressure sensors were assigned depths corresponding to the minimum pressure recorded. The minimum pressure was determined from unfiltered data. Conversion from pressure units to depth units, i. e. from decibars to meters, was done with a relationship developed by Professor J. L. Reid of Scripps Institution of Oceanography:

$$Z(m) = (0.992446)P - (2.28717 \times 10^{-6})P^2 + (2.08213 \times 10^{-11})P^3$$

This equation is based on a world average density profile. The depths of meters that did not have pressure sensors were estimated from those that did using the mooring line lengths as determined by a computer model that calculates line tension and the amount of stretch. Again, minimum rather than average or maximum depths were estimated. Bottom depth was calculated from the line lengths between the deepest instrument and the anchor.

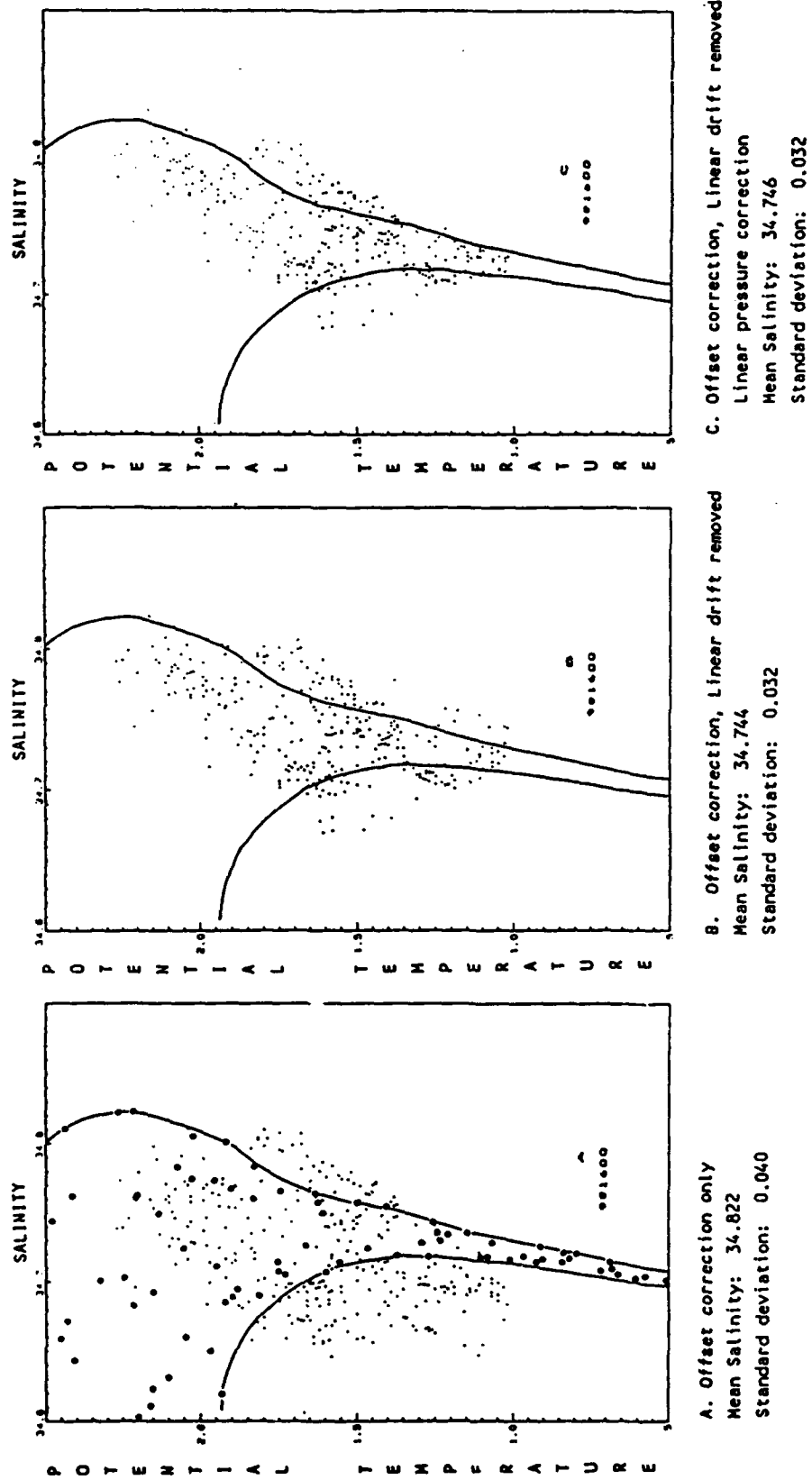
Occasional problems appear in the data as repeated numbers, isolated spikes, absence of data, or short runs of unexplainably erratic data. Problem areas of only a few cycles were corrected by linear interpolation; those longer than a few hours were bridged. The bridging technique employs Anderson's (1974) algorithm for a predictive filter which utilizes the spectral characteristics on both sides of the gap (Smylie et al. 1973; Ulrych et al. 1973). All questionable data have been eliminated unless a note to the contrary is included on the statistics page. In general, data gaps of a few days or less were bridged and those of greater duration were left as missing values.

SALINITY

Twenty-nine instruments returned some conductivity data. The data were corrected by comparing the recorded data to historical hydrographic data from the region. At high latitudes, isopycnals undergo large depth changes, so all corrections were applied in potential temperature-salinity (θ -S) space. The upper and mid-level waters of the region may belong to one of several distinct θ -S regimes, but the deeper waters follow a nearly linear θ -S relation with very little scatter. Where possible, the deep θ -S relation was used to correct the data.

For convenience, daily subsamples of the 40-hour low passed data were used in the correction

Figure 2 (a-c). Cumulative salinity corrections applied to ABC's Mooring 9.



procedure. The corrections were subsequently applied to the six-hourly subsampled data.

Potential temperature-salinity points from the current meter data were first plotted to identify regions where the relation should be tight. Frequently this region was associated with mooring blowover into Circumpolar Deep Water with its linear θ -S relation. Historical hydrographic data were used to fit a line or curve to the region of interest for each mooring. The offsets between the curve-fit and the conductivity-temperature pairs in the fitted region were then calculated. The number of points in the fitted region is listed in the next to last column of Table 2. All subsequent corrections were determined from this subset of points and applied to the entire data set.

Offsets were plotted as a function of time to determine the drift (if any) of the conductivity sensor. In all cases but one, the drifts were negative, implying a trend toward lower conductivity with time. The instrument at mooring 8 at 2335 appeared to have a very slight positive drift. The values for drift listed in Table 2 should not be interpreted too literally: conductivity is a weak function of salinity, and a strong function of pressure and temperature, so the drifts may be influenced by the character of the temperature signal, or the pressure versus time record for each mooring.

Two instruments (1 at 2080 m and 14 at 2465 m) had unexplained shifts in salinity during the course of the deployment. An additional offset was applied to these records for all points after the shift.

After offset and drift corrections were applied, the current meter data were again compared to the curve-fit historical data. This time, the residuals were plotted as a function of recorded pressure. About half the instruments recorded conductivities that were too high with increasing pressure (during blow-over events). Linear pressure corrections were applied. As with the drift correction, the pressure correction does not necessarily imply a pressure dependent error in the conductivity sensor. A pressure dependent error in pressure or even in temperature could produce the same effects.

In Figures 2a-c are shown the cumulative corrections applied to mooring 9 at 1600 m. Figure 2a is the potential temperature versus salinity plot for an offset correction has been applied. The symbols are pairs from hydrographic stations in the vicinity of the mooring and the envelope of these data is enclosed in solid lines. Figure 2b shows the data after removal of the trend in time. The trend was removed based on the offsets from the curve-fit hydrographic data colder than 1.5°C. (The drift correction also leads to a slightly different offset value.) Figure 2c shows the

ABYSSAL BOUNDARY CURRENT STUDIES CONDUCTIVITY CORRECTIONS

| Instrument | Cond. offset (mmho/cm) | Drift (mmho/cm/day) | Pressure Corr. (= $A_1 + A_2 \cdot P$) | θ -S fit ($S = B_1 + B_2 \cdot \theta + B_3 \cdot \theta^2 \dots$) | Fit for | # points | Std. dev |
|------------------------|---------------------------|------------------------|---|--|----------------------------|----------|----------|
| 1 at 1300 | -.419 | -.32 E-4 | none | $B_0 = 34.944$ $B_1 = -.55017$ $B_2 = .44829$ $B_3 = -.12026$ | $\theta < 2^\circ\text{C}$ | 410 | .0141 |
| 1 at 2080 ¹ | -.235 | -.85 E-4 | none | $B_0 = 34.677$ $B_1 = .06179$ $B_2 = -.01961$ | $\theta < 1.5$ | 409 | .0062 |
| 1 at 2435 | -.434 | -.60 E-4 | none | $B_0 = 34.682$ $B_1 = .04380$ | $\theta < 0.8$ | 126 | .0048 |
| 2 at 1575 | -.262 | -.10 E-3 | none | $B_0 = 34.571$ $B_1 = .23496$ $B_2 = -.08858$ | $\theta < 2$ | 237 | .0158 |
| 3 at 835 | -.315 | -.60 E-4 | $A_0 = .07202$ $A_1 = -.9488\text{E-}4$ | $B_0 = 33.334$ $B_1 = 3.8996$ $B_2 = -4.0799$ $B_3 = 1.8947$ $B_4 = -.33077$ | $1.1 < \theta < 2.3$ | 316 | .0267 |
| 3 at 1585 | -.174 | -.70 E-4 | $A_0 = .0799$ $A_1 = -.4846\text{E-}4$ | $B_0 = 35.1276$ $B_1 = -.93108$ $B_2 = .70391$ $B_3 = -.17583$ | $\theta < 1.8$ | 227 | .0348 |
| 3 at 2355 | -.187 | -.17 E-4 | $A_0 = .19674$ $A_1 = -.8209\text{E-}4$ | $B_0 = 34.682$ $B_1 = .03422$ $B_2 = .01359$ | $\theta < 1.5$ | 414 | .0116 |
| 4 at 985 | -.278 | -.79 E-4 | $A_0 = .22622$ $A_1 = -.15451\text{E-}3$ | $B_0 = 34.673$ $B_1 = .05870$ | $\theta < 2$ | 54 | .0213 |
| 4 at 1750 ² | -.270 | .none | none | by eye | all values | 114 | .0411 |
| 4 at 2520 | -.292 | -.80 E-4 | $A_0 = .20107$ $A_1 = -.7339\text{E-}4$ | $B_0 = 34.673$ $B_1 = .05870$ | $\theta < 1.4$ | 143 | .0099 |
| 5 at 1750 | off scale | | | | | | |
| 5 at 2465 | flooded — uncorrectable | | | | | | |
| 6 at 810 | -.127 | -.50 E-4 | none | $B_0 = 41.686$ $B_1 = -4.4231$ $B_2 = .63842$ | $2.4 < \theta < 3.0$ | 25 | .0547 |
| 6 at 1580 | -.209 | -.156 E-3 | $A_0 = .1612$ $A_1 = -.88312\text{E-}4$ | $B_0 = 34.675$ $B_1 = .052402$ | $\theta < 2.2$ | 72 | .0229 |
| 6 at 2330 | -.209 | -.104 E-2 | $A_0 = -.127$ $A_1 = .38111\text{E-}4$ | $B_0 = 34.675$ $B_1 = .052402$ | $\theta < 2.5$ | 57 | .0173 |

| Instrument | Cond. offset (mmho/cm) | Drift (mmho/cm/day) | Pressure Corr. (= $A_1 + A_2 * P$) | θ -S fit ($S = B_1 + B_2 * \theta + B_3 * \theta^2 \dots$) | Fit for | # points | Std. dev |
|-------------------------|-----------------------------|------------------------|--|--|----------------|----------|-------------|
| 7 at 2365 | | | off scale | | | | |
| 8 at 820 | -.150 | -.165 E-3 | $A_0 = .06405$ $A_1 = -.7102E-4$ | same | $\theta < 1.9$ | 114 | .0133 |
| 8 at 1540 | -.138 | -.30 E-4 | $A_0 = .10472$ $A_1 = -.63416E-4$ | same | $\theta < 1.5$ | 194 | .0156 |
| 8 at 2335 | -.391 | +.20 E-4 | $A_0 = .09952$ $A_1 = -.41489E-4$ | same | $\theta < 2.0$ | 422 | .0073 |
| 9 at 1600 | -.370 | -.149 E-3 | $A_0 = .133$ $A_1 = -.7841E-4$ | same | $\theta < 1.5$ | 119 | .0131 |
| 9 at 2355 | -.220 | .none | none | same | $\theta < 1.0$ | 267 | .0122 |
| 10 at 2535 ³ | -.651 | -.129 E-3 | $A_0 = .0551$ $A_1 = -.29459E-4$ | same | $\theta < 1.0$ | 241 | .0112 |
| 11 at 2805 | very noisy — uncorrectable | | | | | | |
| 12 at 955 | -.548 | -.18 E-3 | $A_0 = .17264$ $A_1 = -.2043E-3$ | same | $\theta < 2.1$ | 103 | .0247 |
| 12 at 1715 | -.215 | -.58 E-4 | $A_0 = .100$ $A_1 = -.61575E-4$ | same | $\theta < 1.8$ | 102 | .0147 |
| 12 at 2490 | -.227 | -.26 E-4 | none | same | $\theta < 1.0$ | 156 | .0063 |
| 13 at 1720 | no pressure — uncorrectable | | | | | | |
| 13 at 2445 ⁴ | -.250 | .none | none | | fit by eye | | |
| 14 at 2465 ⁵ | -.481 | -.74 E-4 | none. | same | $\theta < 1.5$ | 307 | .0072 |

¹ additional offset of +.033 added after yearday 166

² two separate θ -S regimes, no curve fit possible

³ 70% of the pressures were generated artificially. An additional correction as a function of potential temperature was applied: $\text{Corr.} = .02731 - .036465 * PT$ This correction does not imply any sensor error, but rather an expedient method of aligning the θ -S curve with historical data.

⁴ ten day record

⁵ additional offset of +.020 added after yearday 164

Table 2. Abyssal Boundary Current Studies conductivity corrections.

final data after application of a linear pressure correction. Most of the points are not changed by the pressure correction, but there is a reduction in the scatter at low temperatures.

DATA PRESENTATION

Each of the current meter records is described in this report. The descriptions include start times and stop times, statistics for each variable, frequency histograms and spectra, and some representative time series plots of the velocity, temperature, pressure, and salinity observations.

The data are organized by mooring location. Each section begins with a timeline showing the instrument depths for each mooring period, and the duration of good data from each sensor: speed (s), direction (θ), temperature (T), pressure (P), and salinity (Sal).

The page of statistics gives the mean, variance, and extrema for speed (s), eastward (u) and northward (v) components of the current, temperature (T), pressure (P), and salinity (Sal). It also includes information about dates of installation and recovery, and notes on the quality of each record. Statistics for both unfiltered and filtered (LLP) information are provided.

The presentation of the hourly unfiltered data begins with histograms, scatter plots, and progressive vector diagrams. The histograms of speed, direction, temperature, pressure and salinity show the frequency of occurrence versus amplitude. The scatter diagrams show the distribution of hourly values of speed and direction. For clarity, the low speeds (< 1.5 cm/sec) have been excluded from these plots. The progressive vector diagrams are obtained by placing the velocity vectors tail-to-head to show the path that a particle would travel in a perfectly homogeneous flow. The squares mark the beginning of each month. Kinetic energy spectra of u and v, and variance density spectra of temperature conclude the presentation of unfiltered hourly data. LLP filtered data are presented next as time series plots. There are two series of plots for each current meter mooring: all variables (velocity vectors, u, v, temperature, pressure, and salinity) at each depth on the mooring, and each variable at all depths.

ACKNOWLEDGEMENTS

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MOORING 1

49°29.60S, 41°16.20W

1986 1987

JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR

1300 M

S
P
T
P
Sd

2080 M

S
P
T
P
Sd

2435 M

S
P
T
P
Sd

DATA RETURN FROM MOORING 1.

MOORING 1 UNFILTERED HOURLY DATA

1300M AT MOORING 1. 1100 27 JAN 86 - 1700 28 MAR 87. TAPE 3125/38.

| | MEAN | SD | MIN | MAX | LENGTH | ENDS AT |
|---|---------|-------|---------|---------|--------|------------------|
| S | 18.56 | 10.32 | 0.80 | 67.00 | 10207 | (1700 28 MAR 87) |
| U | -15.48 | 12.75 | -67.00 | 28.60 | 10207 | (1700 28 MAR 87) |
| V | 3.27 | 6.17 | -27.70 | 39.80 | 10207 | (1700 28 MAR 87) |
| T | 1.83 | 0.17 | 0.97 | 2.59 | 10207 | (1700 28 MAR 87) |
| P | 1339.48 | 35.33 | 1314.20 | 1686.70 | 10207 | (1700 28 MAR 87) |

2080M AT MOORING 1. 1100 27 JAN 86 - 1600 28 MAR 87. TAPE 4576/5.

| | | | | | | |
|---|---------|-------|---------|---------|-------|------------------|
| S | 23.54 | 14.26 | 0.80 | 77.30 | 10206 | (1600 28 MAR 87) |
| U | -22.45 | 15.08 | -77.00 | 20.10 | 10206 | (1600 28 MAR 87) |
| V | 1.15 | 4.94 | -23.60 | 25.60 | 10206 | (1600 28 MAR 87) |
| T | 1.36 | 0.19 | 0.55 | 1.90 | 10206 | (1600 28 MAR 87) |
| P | 2125.48 | 18.97 | 2105.60 | 2304.90 | 10206 | (1600 28 MAR 87) |

2435M AT MOORING 1 1100 27 JAN 86 - 1600 28 MAR 87. TAPE 7353/12.

| | | | | | | |
|---|---------|-------|---------|---------|-------|------------------|
| S | 31.18 | 14.34 | 0.80 | 89.80 | 10206 | (1600 28 MAR 87) |
| U | -30.37 | 14.84 | -85.20 | 19.80 | 10206 | (1600 28 MAR 87) |
| V | 1.70 | 5.67 | -20.40 | 46.80 | 10206 | (1600 28 MAR 87) |
| T | 1.04 | 0.16 | 0.46 | 1.39 | 10206 | (1600 28 MAR 87) |
| P | 2485.61 | 5.29 | 2467.10 | 2517.30 | 10206 | (1600 28 MAR 87) |

(2435 M) SPEED BRIDGES, LINES:

1172 - 1181 (0600 17 MAR 86 - 1500 17 MAR 86)

2693 - 2702 (19 MAY 86)

3164 - 3183 (8 JUN 86)

(Speed, u, and v are given in cm/sec, Temperature in °C, Pressure in DB.)

MOORING 1. LLP FILTERED 6-HOURLY DATA.

1300 M AT MOORING 1. 1200 28 JAN 86 -1200 27 MAR 87. TAPE 3125/38.

| | MEAN | SD | MIN | MAX | LENGTH | ENDS AT |
|---|---------|-------|---------|---------|--------|------------------|
| U | -15.54 | 12.30 | -61.84 | 24.95 | 1693 | (1200 27 MAR 87) |
| V | 3.27 | 5.09 | -25.14 | 29.06 | 1693 | (1200 27 MAR 87) |
| T | 1.83 | 0.16 | 1.04 | 2.47 | 1693 | (1200 27 MAR 87) |
| P | 1339.55 | 34.82 | 1318.60 | 1644.01 | 1693 | (1200 27 MAR 87) |
| S | 34.71 | 0.02 | 34.65 | 34.78 | 1687 | (1200 27 MAR 87) |

2080 M AT MOORING 1. 1200 28 JAN 86 - 0600 27 MAR 87. TAPE 4576/5.

| | | | | | | |
|---|---------|-------|---------|---------|------|------------------|
| U | -22.53 | 14.62 | -75.98 | 17.31 | 1692 | (0600 27 MAR 87) |
| V | 1.15 | 3.35 | -12.63 | 11.06 | 1692 | (0600 27 MAR 87) |
| T | 1.36 | 0.18 | 0.60 | 1.82 | 1692 | (0600 27 MAR 87) |
| P | 2125.52 | 18.81 | 2105.38 | 2289.76 | 1692 | (0600 27 MAR 87) |
| S | 34.72 | 10.25 | 34.68 | 34.79 | 1692 | (0600 27 MAR 87) |

2435M AT MOORING 1. 1200 28 JAN 86 - 0600 27 MAR 87. TAPE 7353/12.

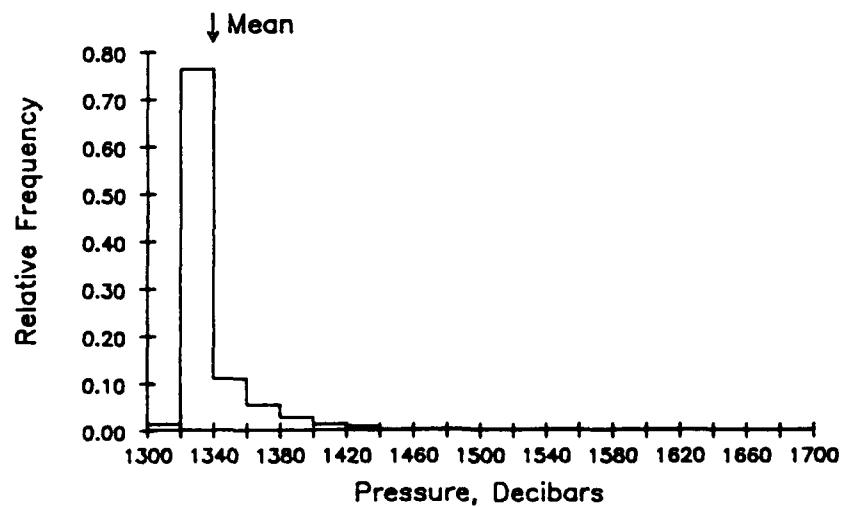
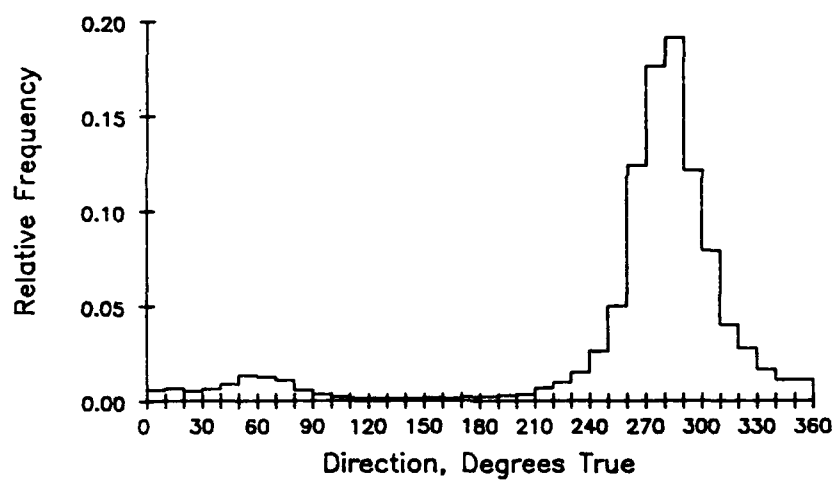
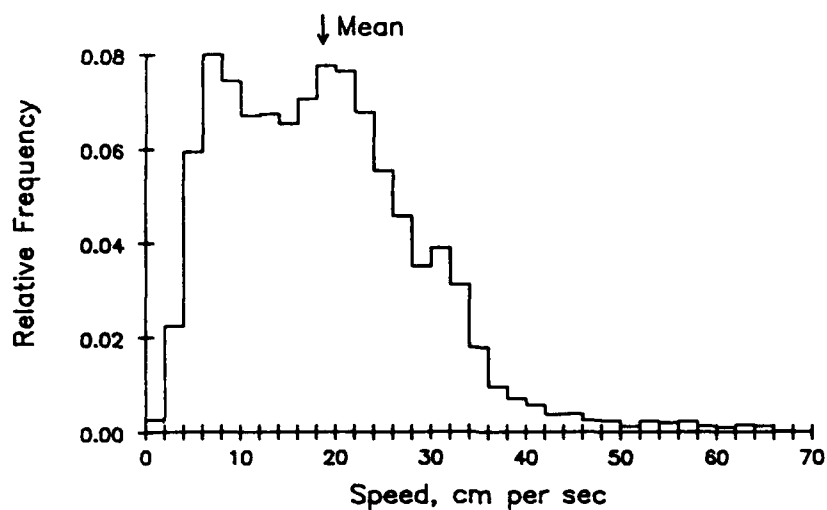
| | | | | | | |
|---|---------|-------|---------|---------|------|------------------|
| U | -30.41 | 14.12 | -79.64 | 15.87 | 1692 | (0600 27 MAR 87) |
| V | 1.71 | 3.92 | -7.53 | 27.67 | 1692 | (0600 27 MAR 87) |
| T | 1.04 | 0.16 | 0.48 | 1.36 | 1692 | (0600 27 MAR 87) |
| P | 2485.65 | 5.19 | 2466.97 | 2517.43 | 1692 | (0600 27 MAR 87) |
| S | 34.72 | 3.90 | 34.69 | 34.74 | 1692 | (0600 28 MAR 87) |

(1300 M) GAPS IN SALINITY RECORD, BAD VALUES REMOVED.

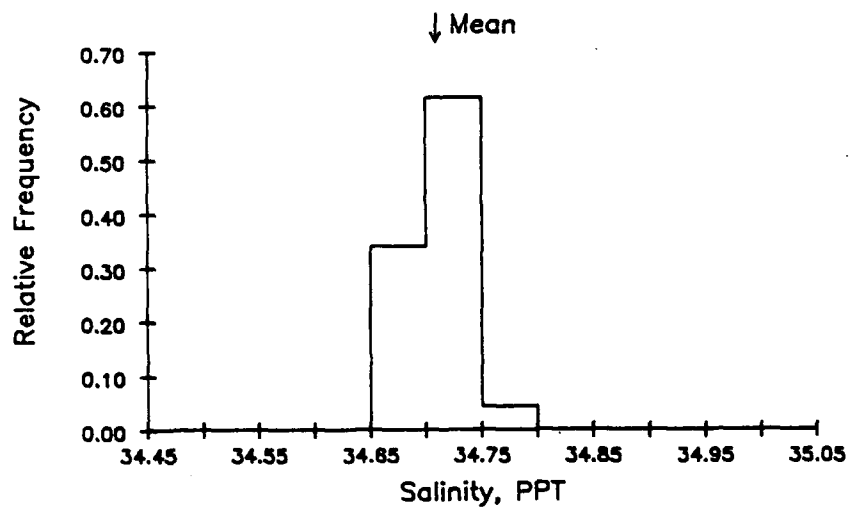
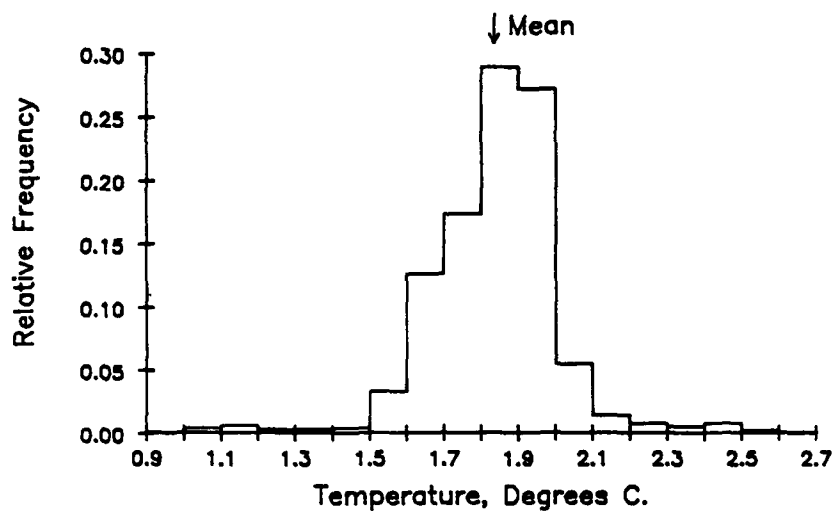
(2435 M) BRIDGES IN UNFILTERED SPEED RECORD

(Speed, u, and v are given in cm/sec, Temperature in °C, Pressure in DB, and Corrected Salinity in ppt.)

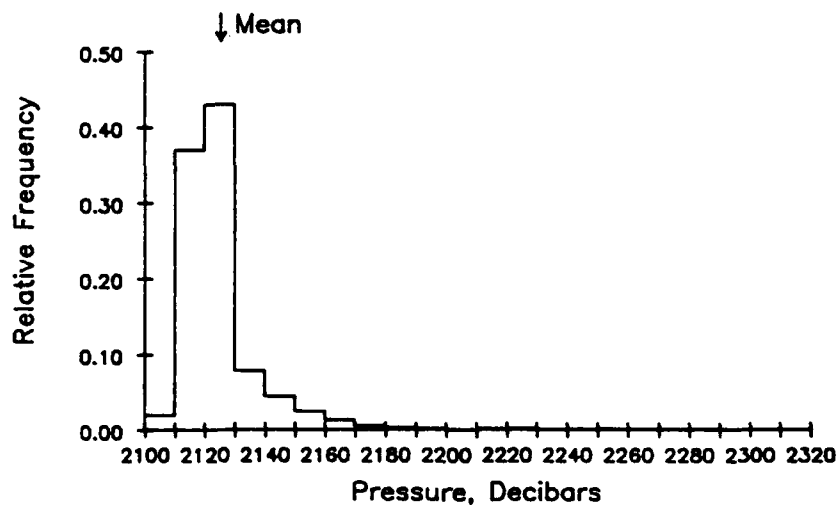
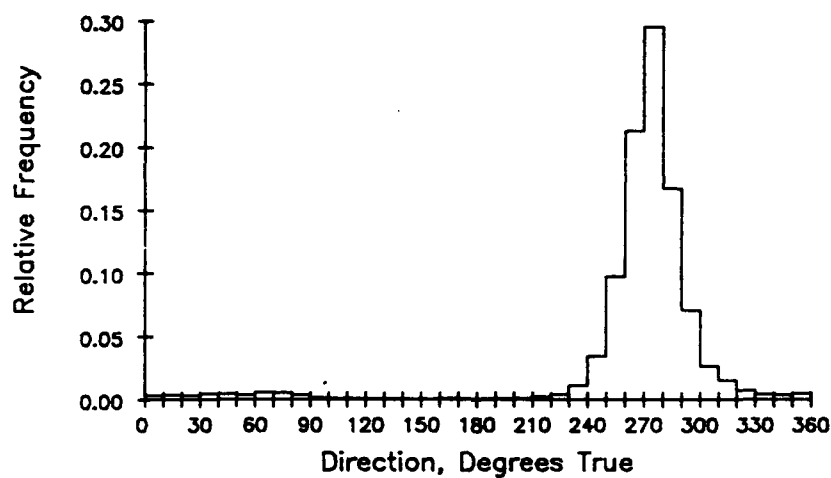
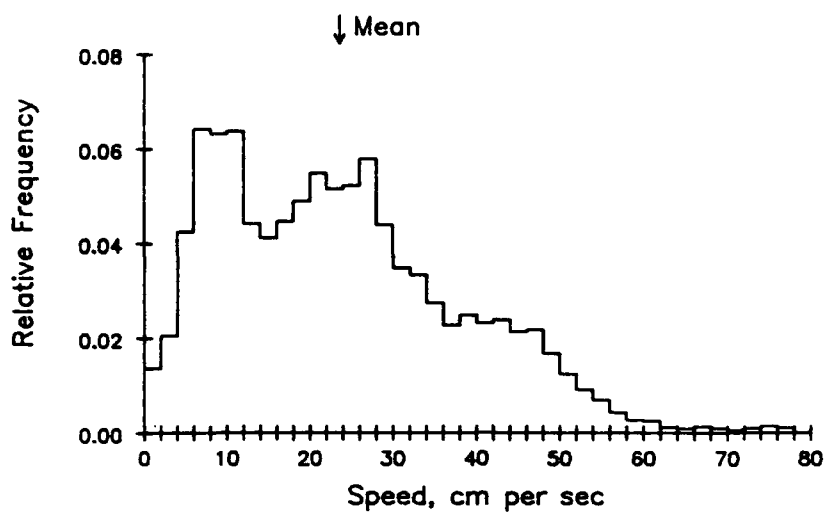
1300 METERS AT MOORING 1. TAPE 3125/38.



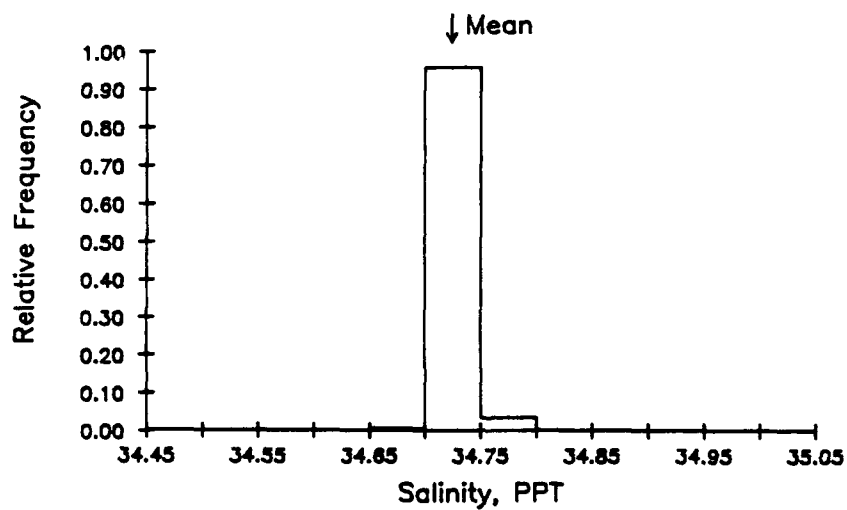
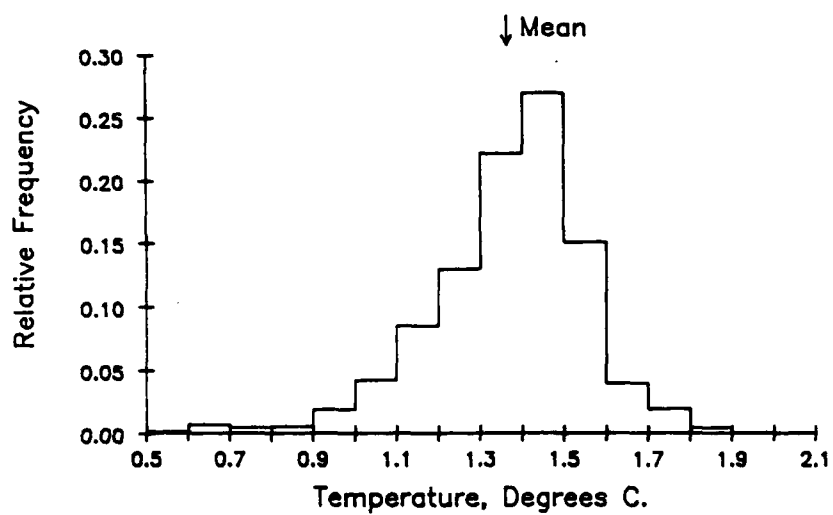
1300 METERS AT MOORING 1. TAPE 3125/38.



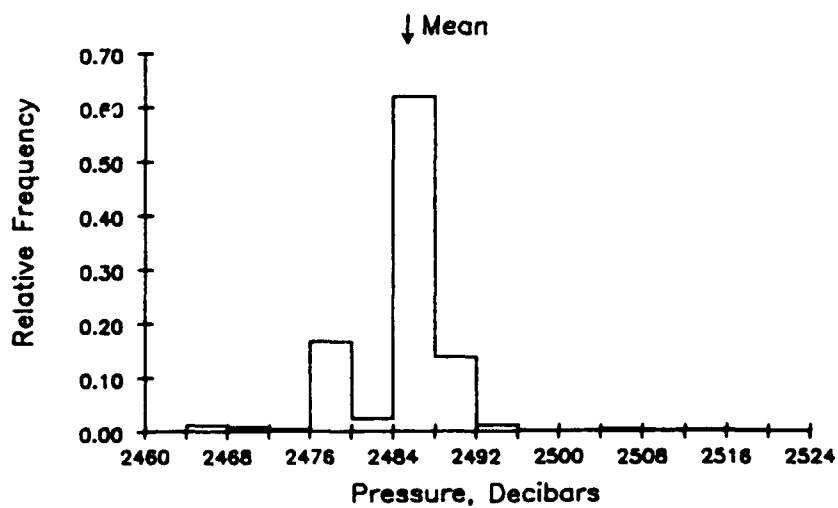
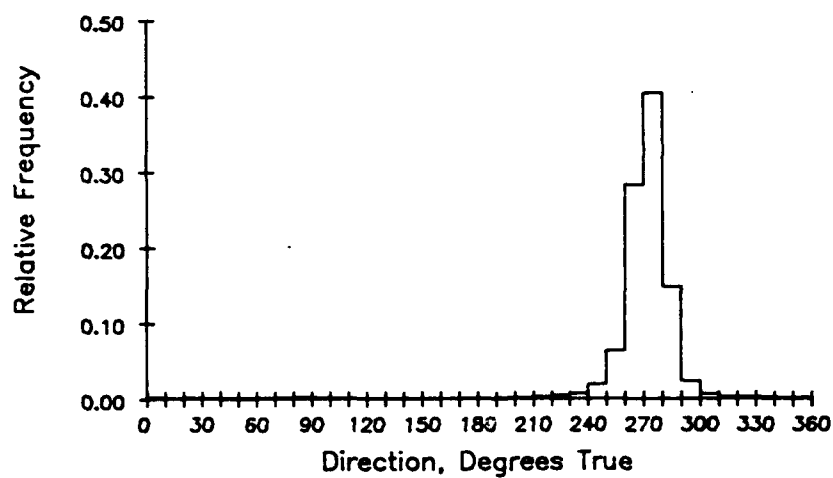
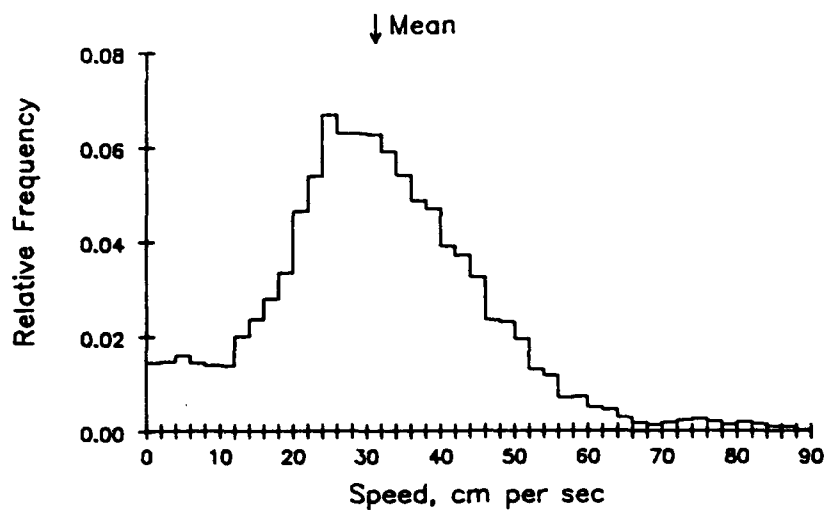
2080 METERS AT MOORING 1. TAPE 4576/5.



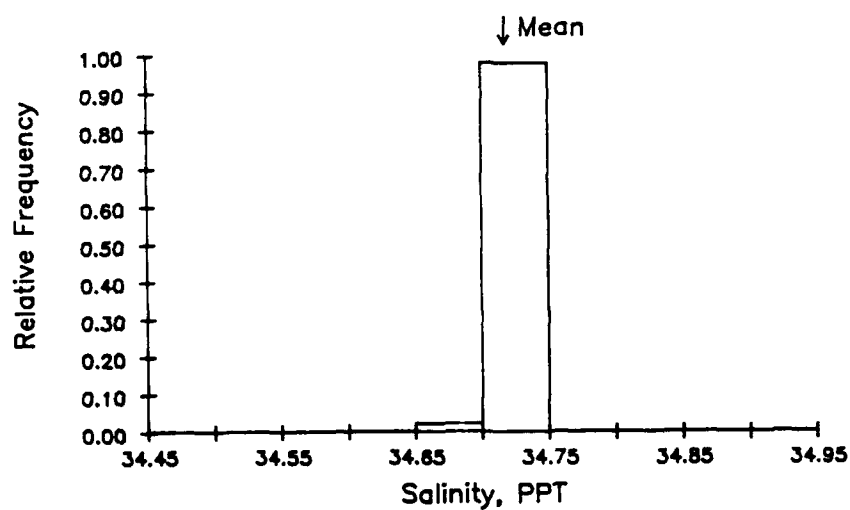
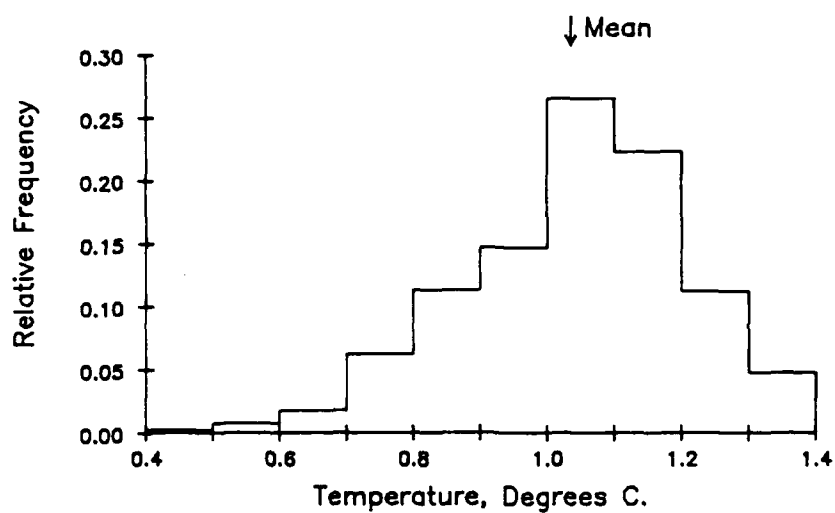
2080 METERS AT MOORING 1. TAPE 4576/5.



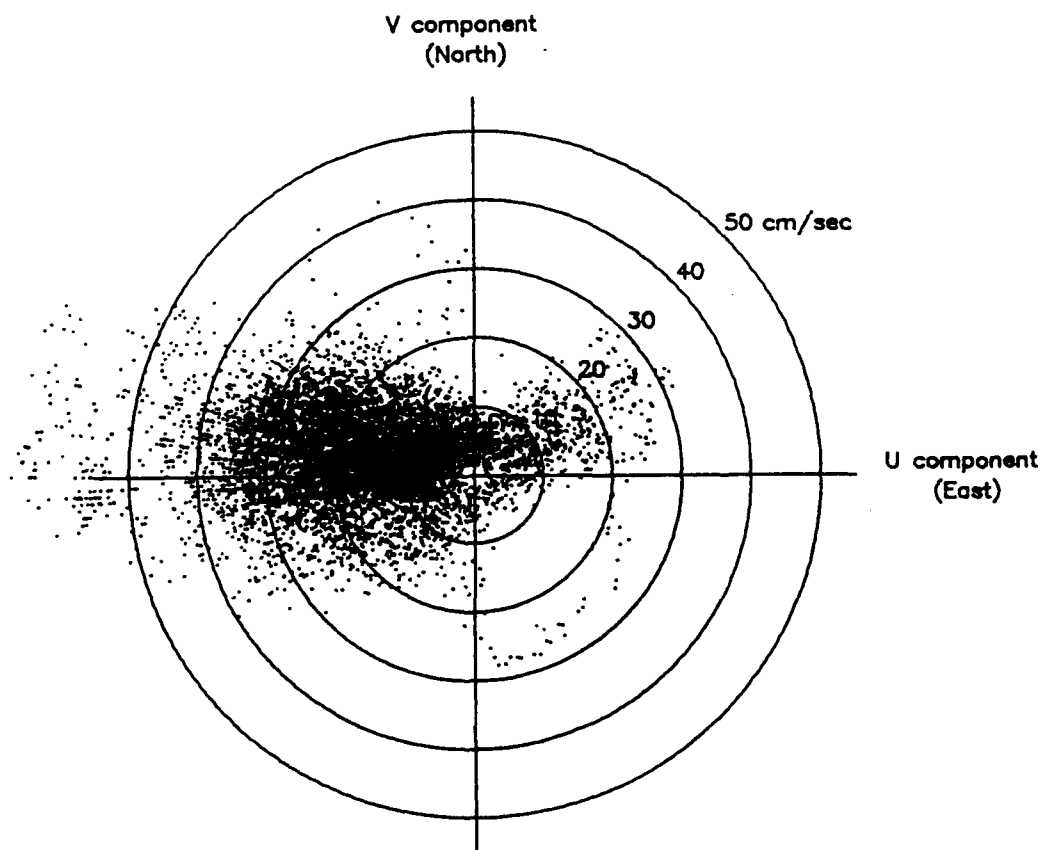
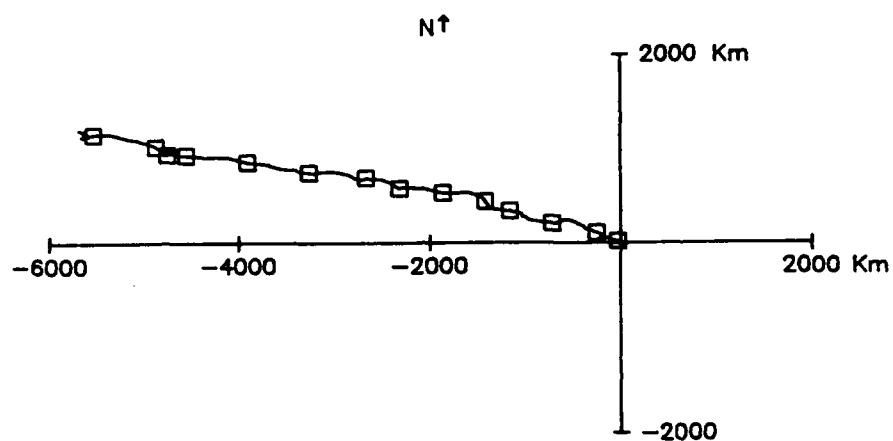
2435 METERS AT MOORING 1. TAPE 7353/12.



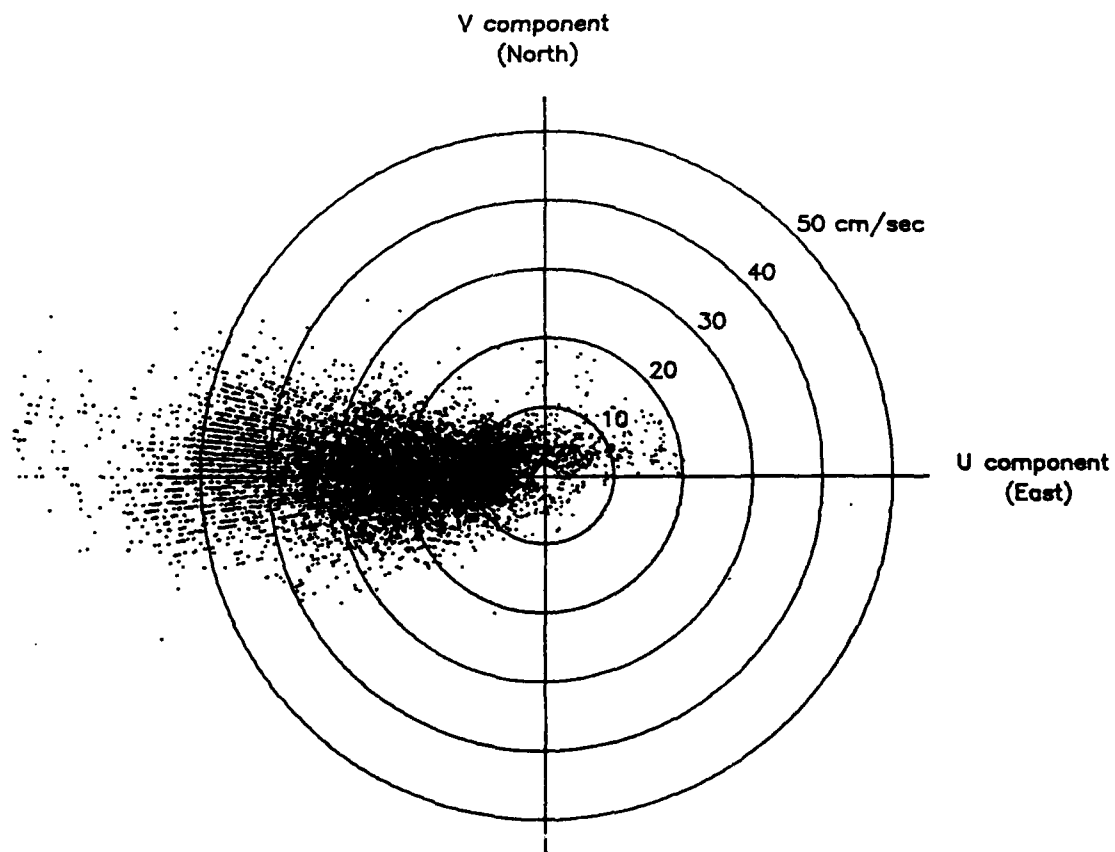
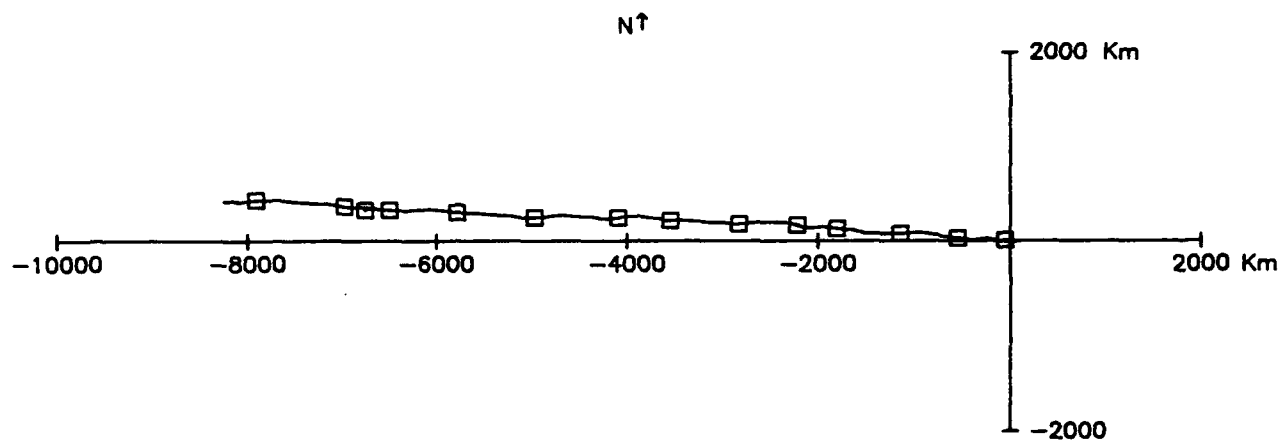
2435 METERS AT MOORING 1. TAPE 7353/12.



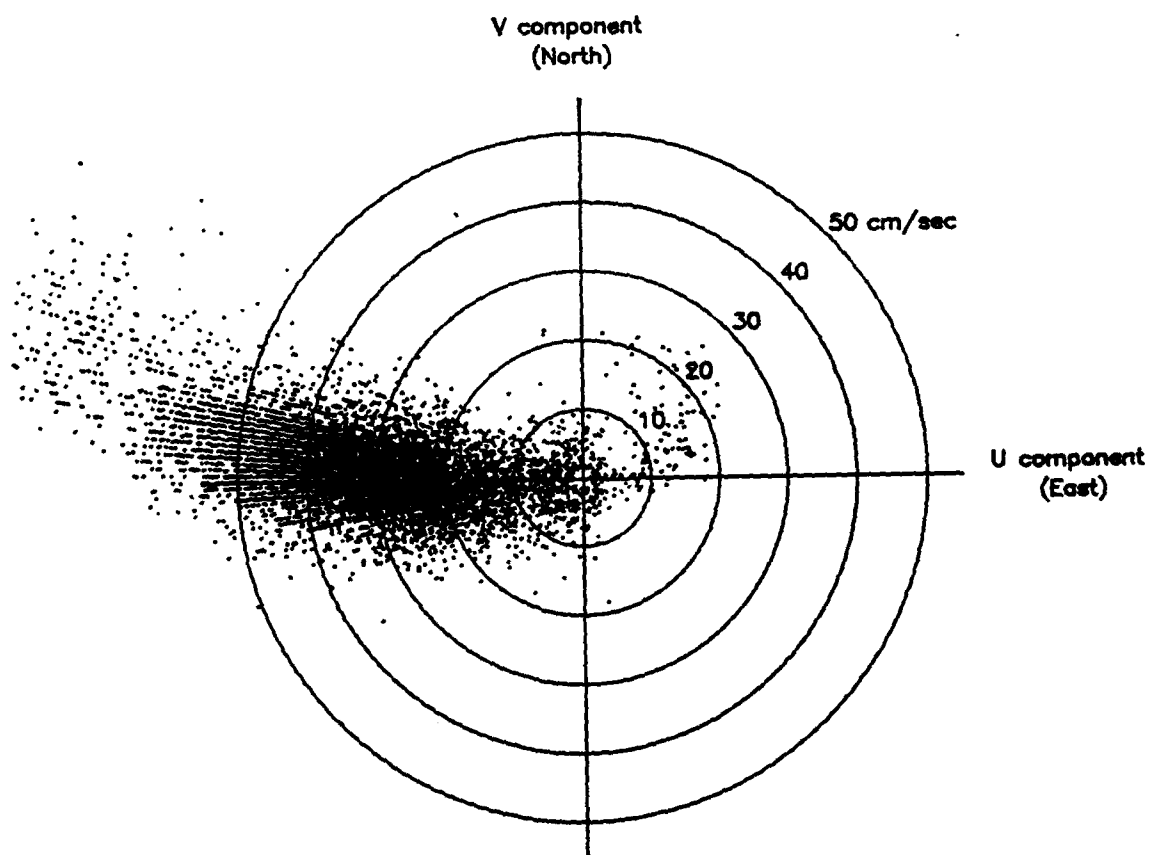
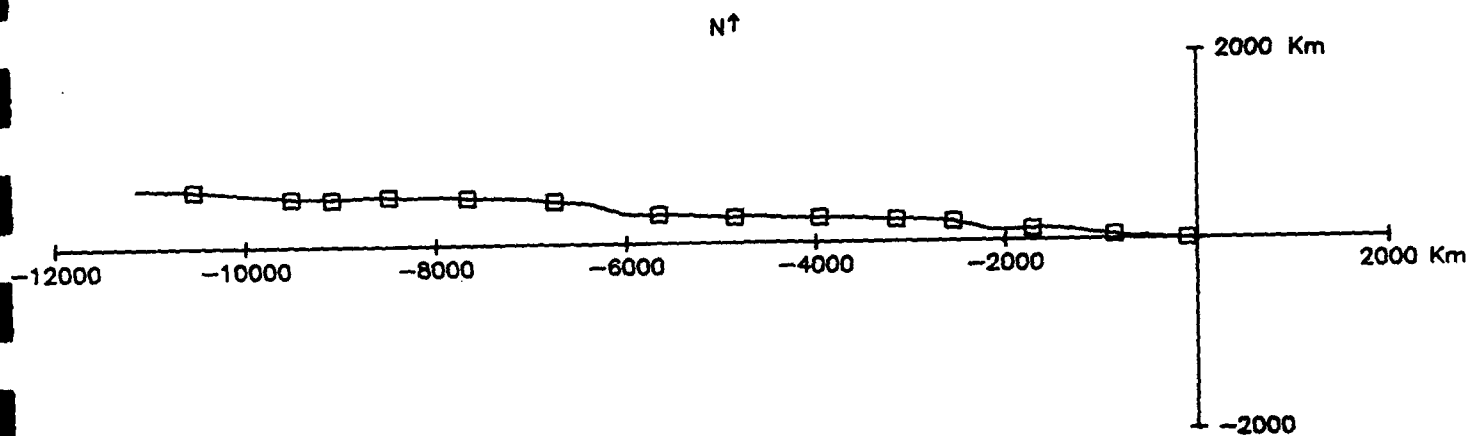
1300M AT MOORING 1. 27 JAN 86 - 28 MAR 87. TAPE 3125/38.



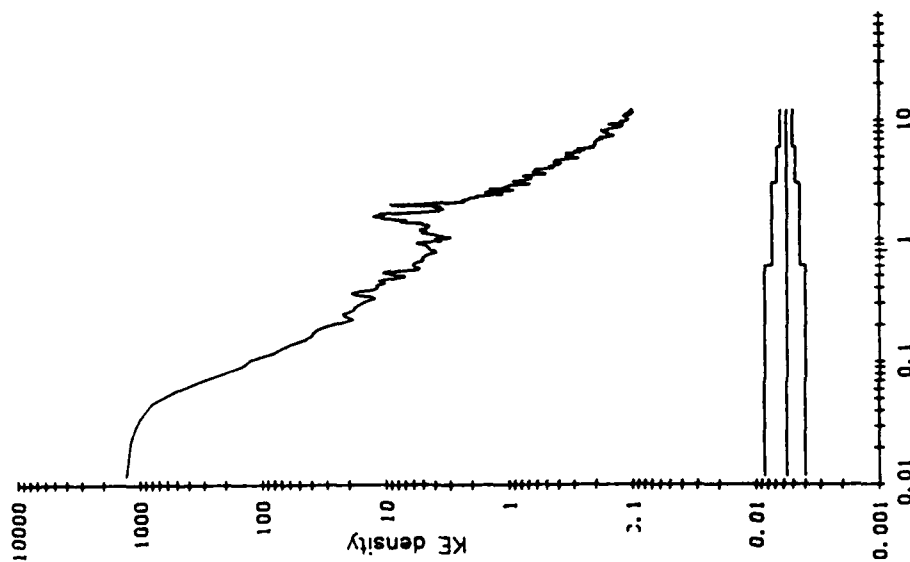
2080M AT MOORING 1. 27 JAN 86 - 28 MAR 87. TAPE 4576/5.



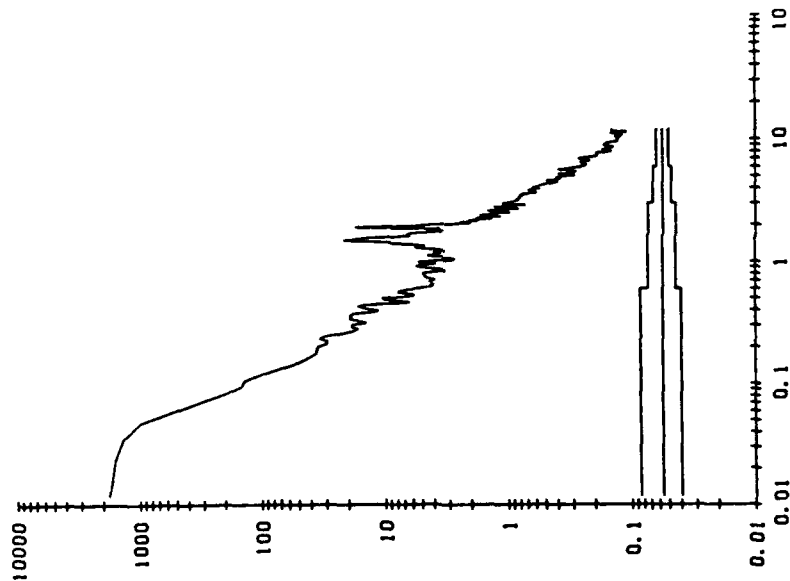
2435M AT MOORING 1. 27 JAN 86 - 28 MAR 87. TAPE 7353/12.



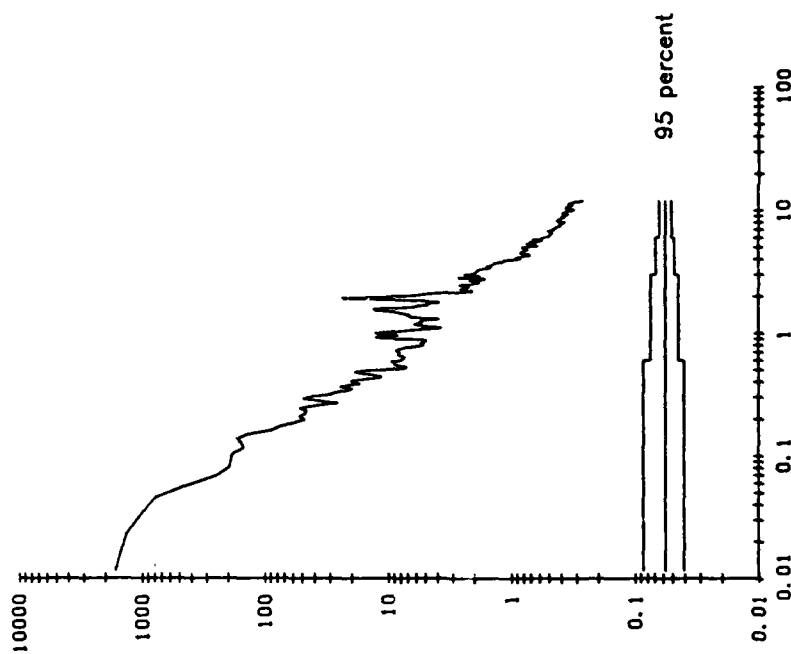
Unfiltered current. 1300 m at Mooring 1.
Both components



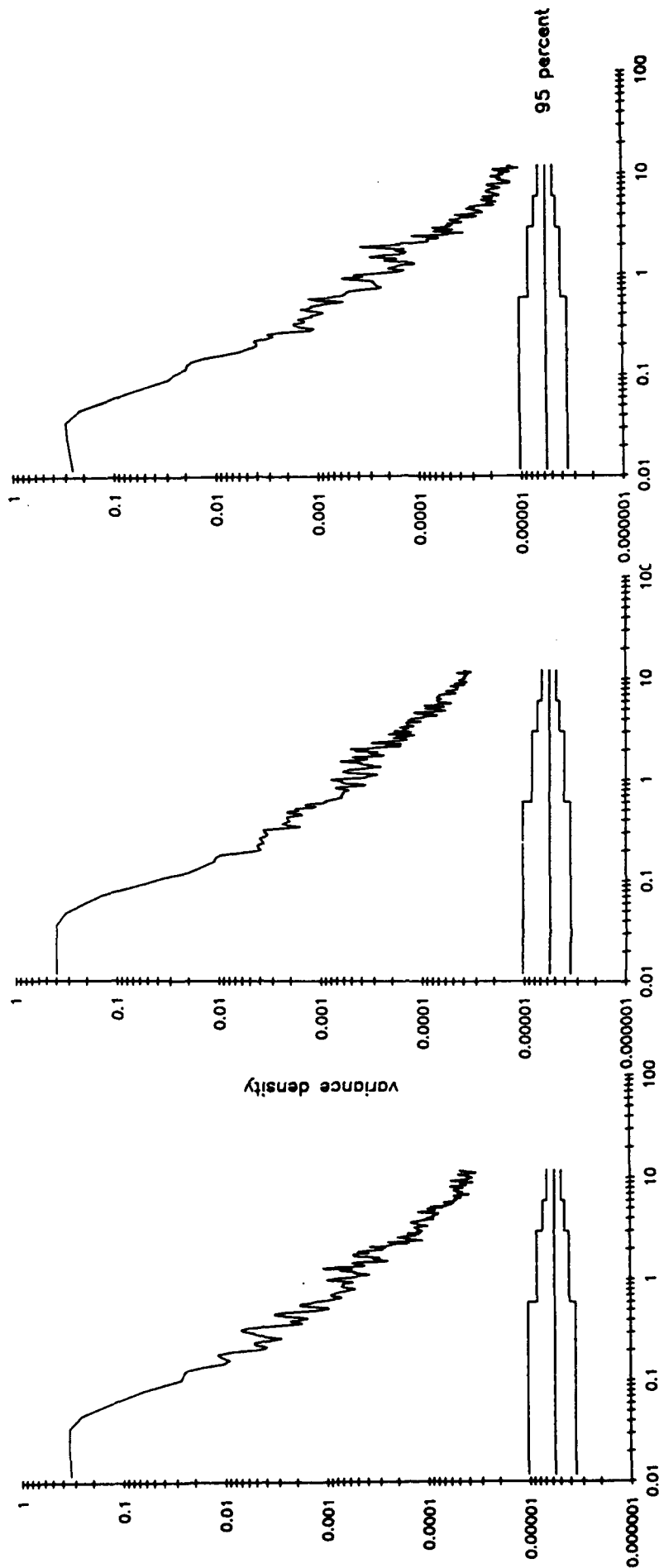
Unfiltered current. 2080 m at Mooring 1.
Both components

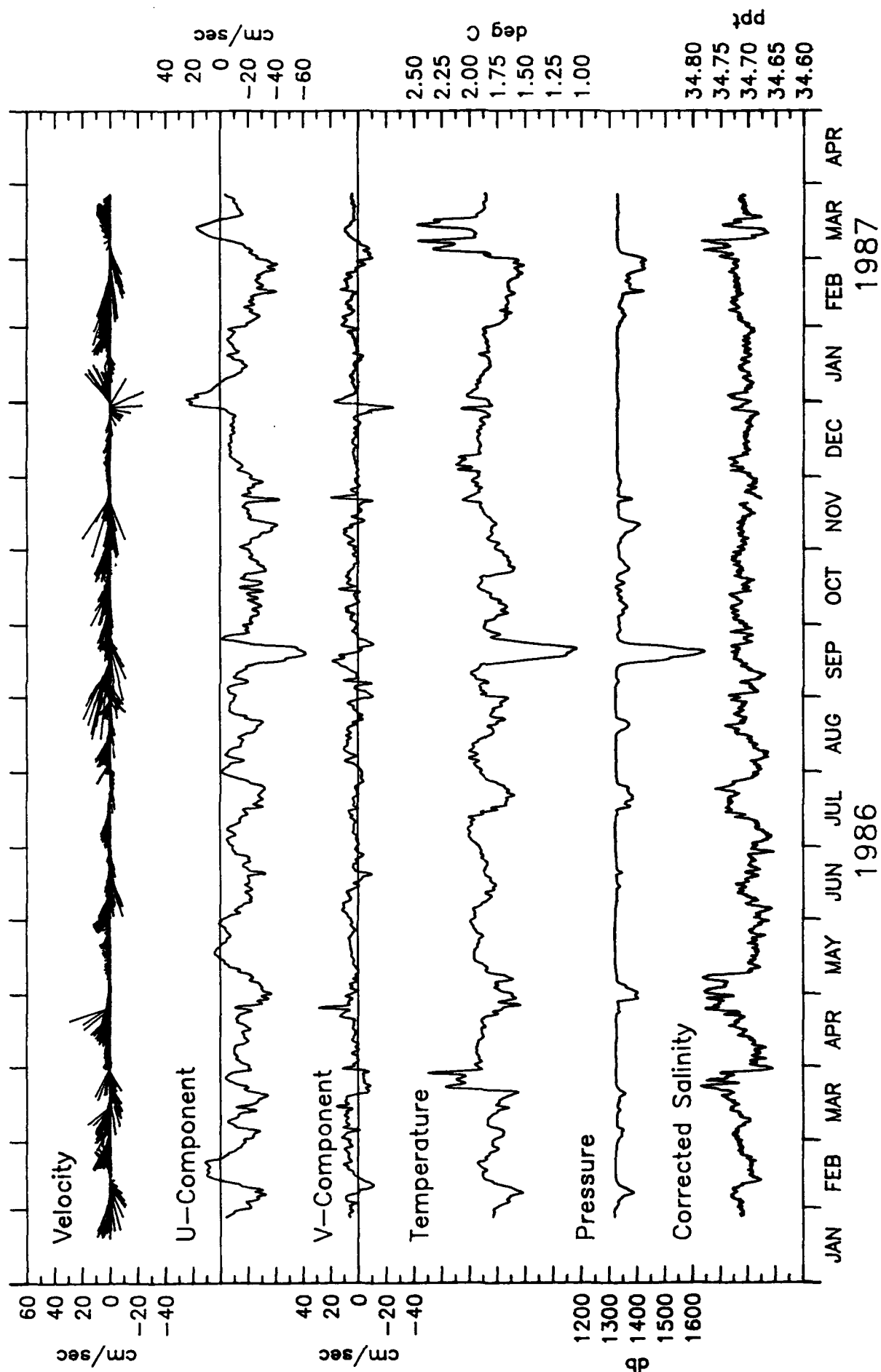


Unfiltered current. 2435 m at Mooring 1.
Both components

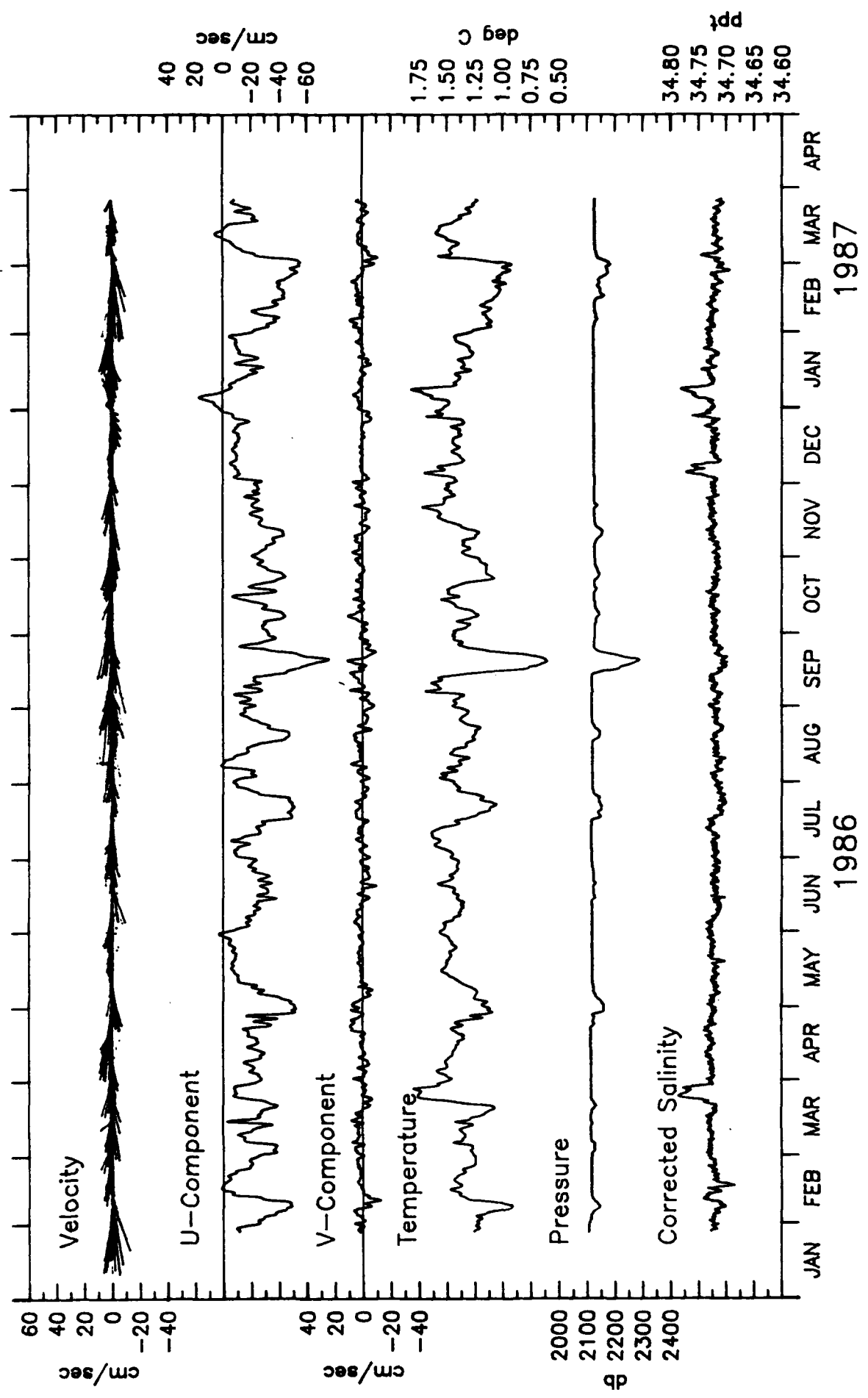


Unfiltered temperature. 1300 m at Mooring 1. Unfiltered temperature. 2080 m at Mooring 1. Unfiltered temperature. 2435 m at Mooring 1.

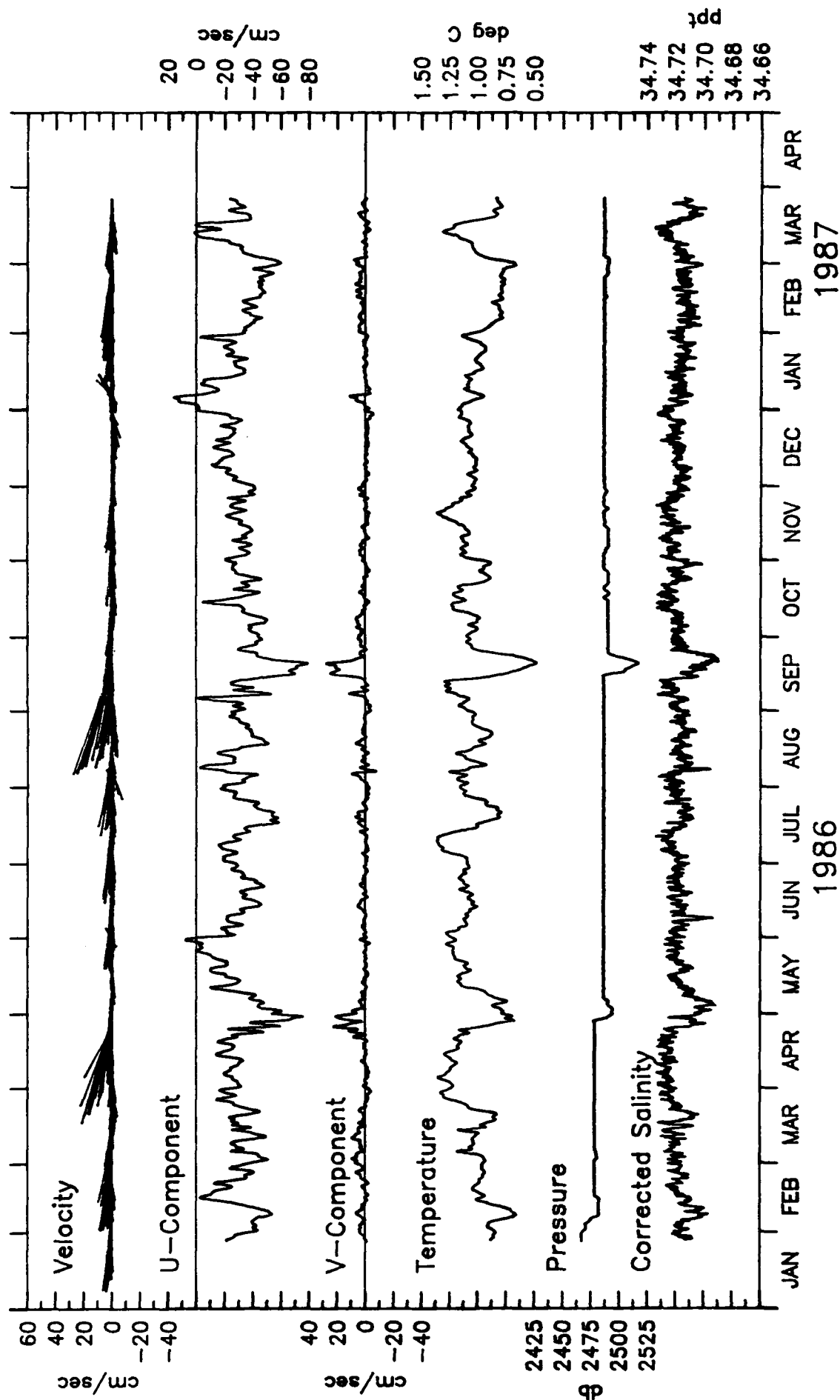




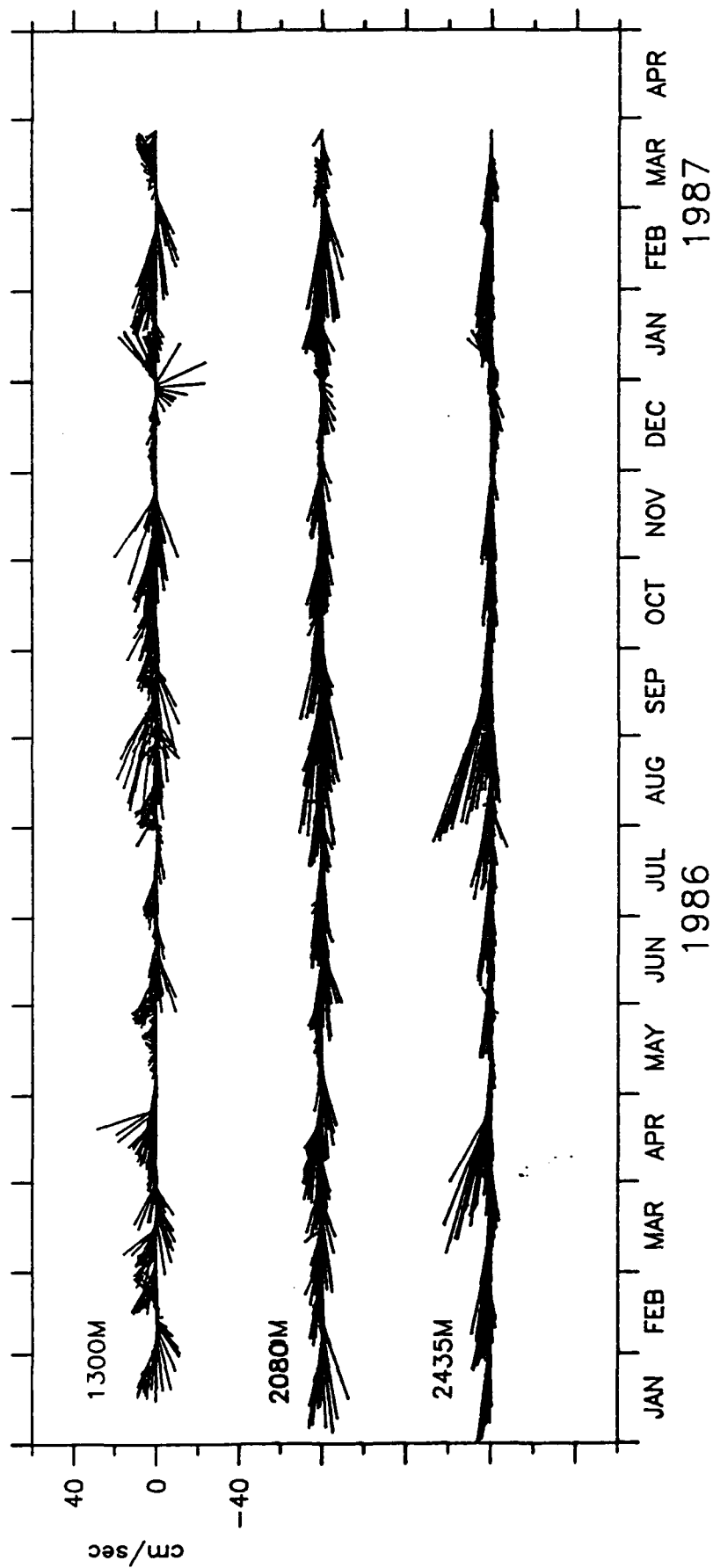
1300M AT MOORING 1.



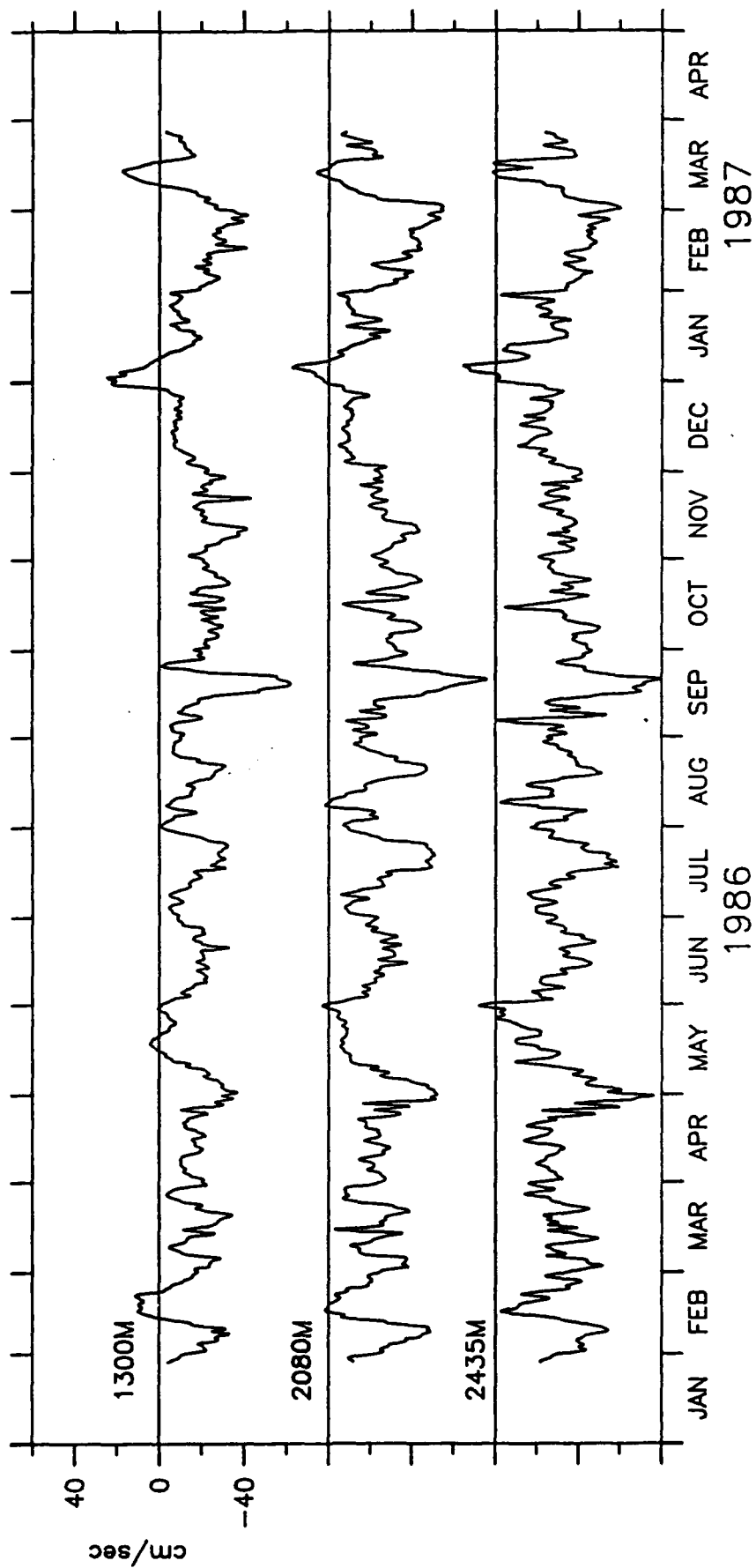
2080M AT MOORING 1.



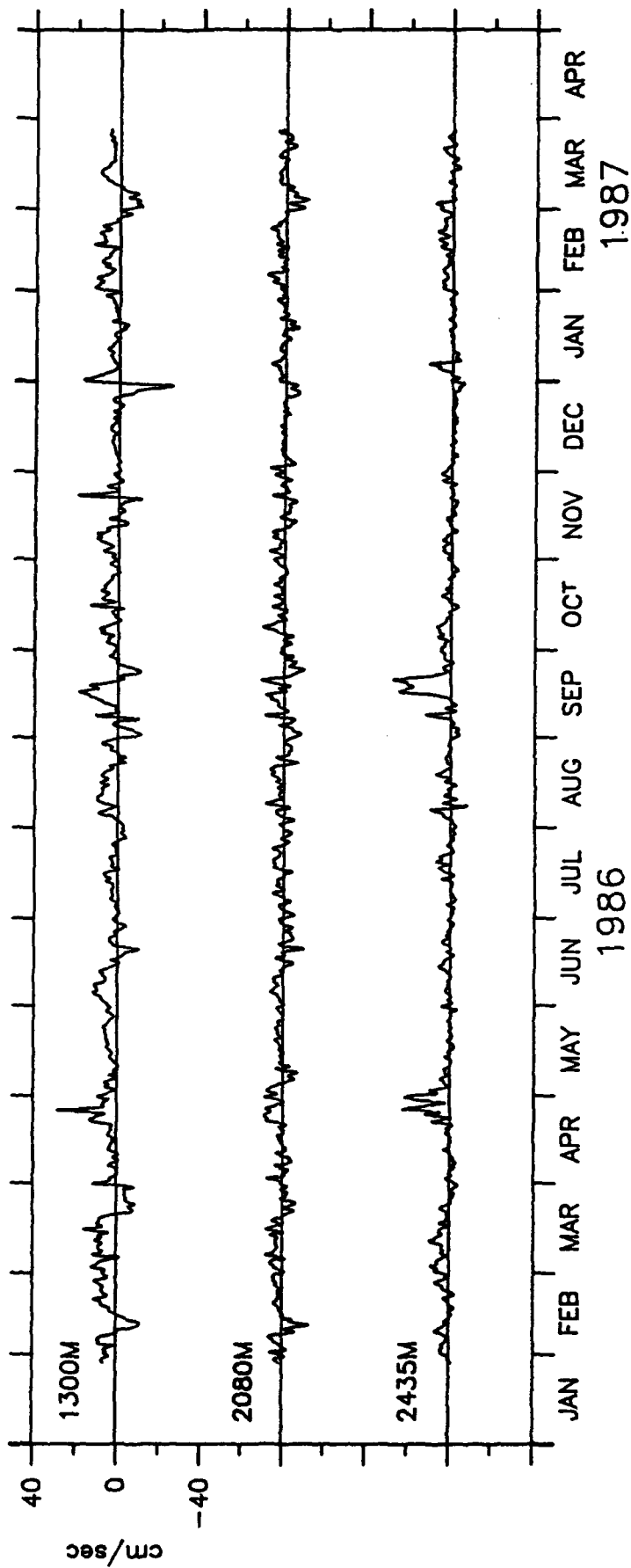
2435M AT MOORING 1.



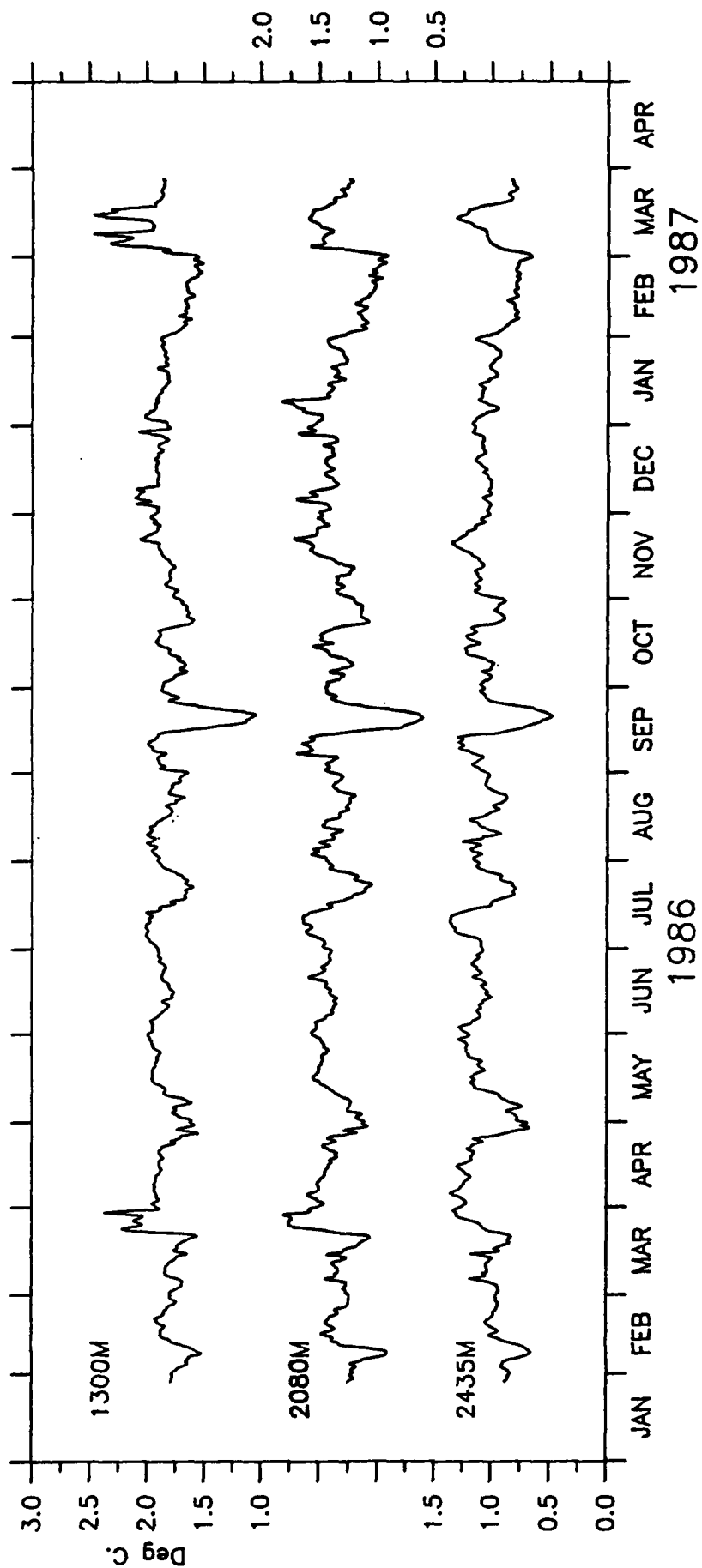
VELOCITY, MOORING 1.



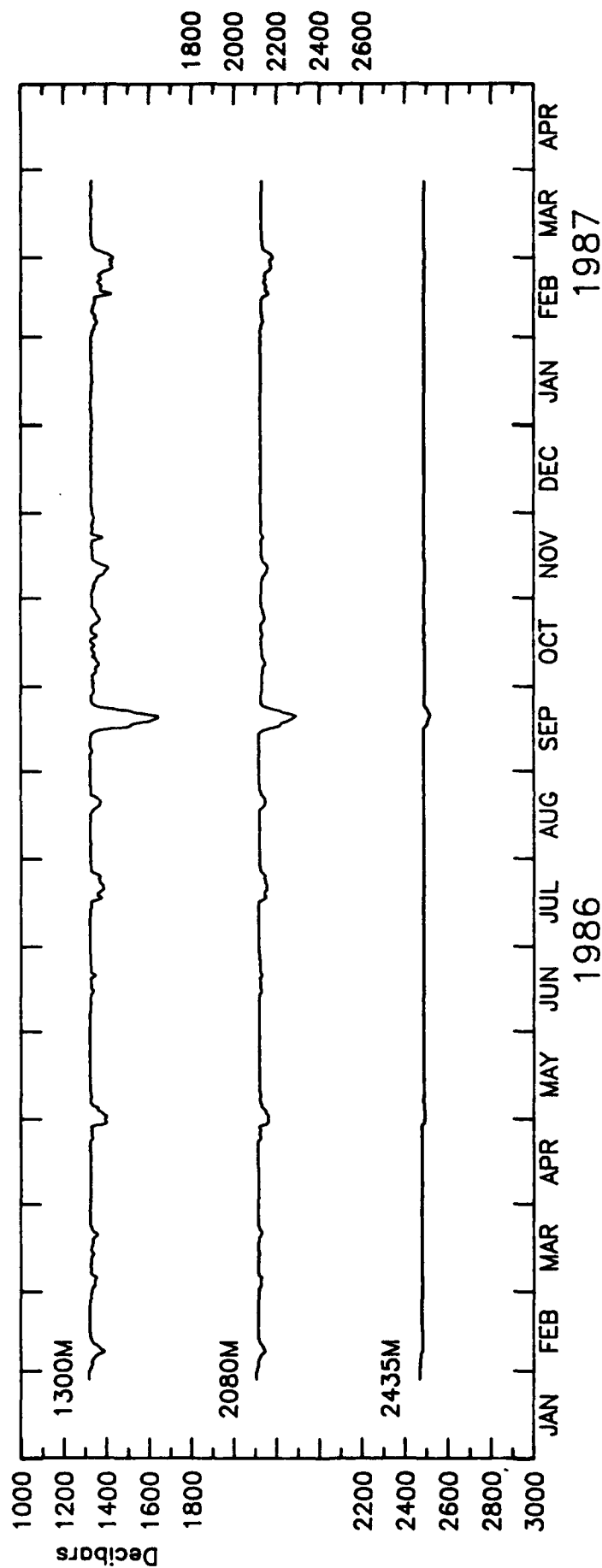
U-COMPONENT MOORING 1.



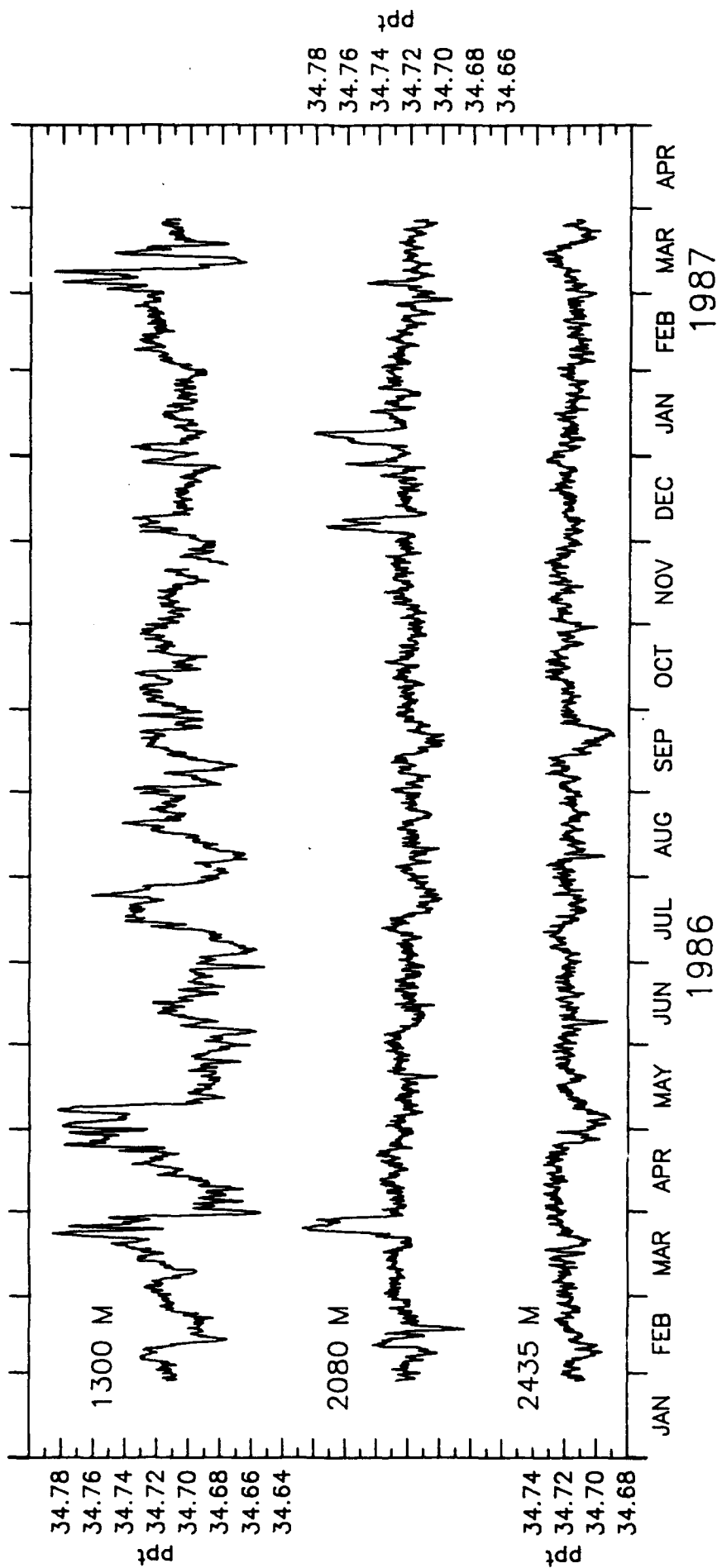
V-COMPONENT MOORING 1.



TEMPERATURE, MOORING 1.



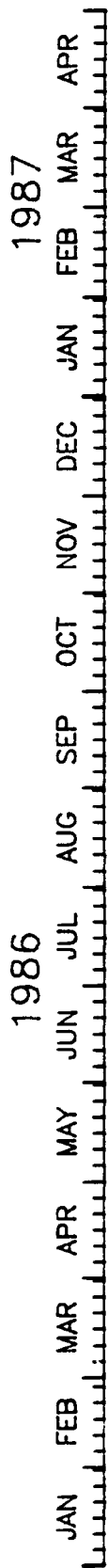
PRESSURE, MOORING 1



CORRECTED SALINITY AT MOORING 1.

MOORING 2

49°21.03'S, 41°18.30'W



1575 M



2325 M (flooded no data)

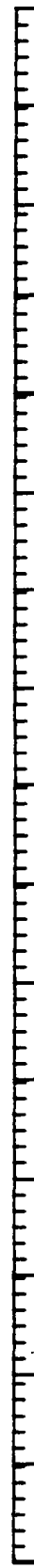
3925 M



4965 M



5500 M



DATA RETURN FROM MOORING 2.

MOORING 2. HOURLY UNFILTERED DATA.

1575M AT MOORING 2. 1700 27 JAN 86 - 1700 19 NOV 86. TAPE 6736/14.

| | MEAN | SD | MIN | MAX | LENGTH | ENDS AT |
|---|---------|-------|---------|---------|--------|------------------|
| S | 13.93 | 8.13 | 0.80 | 56.20 | 7105 | (1700 19 NOV 86) |
| U | -5.94 | 11.87 | -55.40 | 24.50 | 5899 | (1100 30 SEP 86) |
| V | 4.06 | 7.71 | -21.00 | 38.10 | 5899 | (1100 30 SEP 86) |
| T | 1.81 | 0.29 | 0.35 | 2.65 | 6555 | (1900 27 OCT 86) |
| P | 1642.72 | 77.35 | 1596.10 | 2133.30 | 5478 | (0300 17 SEP 86) |

2325M AT MOORING 2. TAPE 4575 FLOODED, NO DATA

3325M AT MOORING 2. 1700 27 JAN 86 - 2300 26 NOV 86. TAPE 497/63.

| | | | | | | |
|---|---------|--------|---------|---------|------|------------------|
| S | 13.81 | 9.58 | 0.70 | 56.40 | 7279 | (2300 26 NOV 86) |
| U | -10.57 | 11.48 | -56.30 | 24.70 | 7196 | (1200 23 NOV 86) |
| V | 1.88 | 5.88 | -18.10 | 29.30 | 7196 | (1200 23 NOV 86) |
| T | 0.44 | 0.14 | 0.06 | 0.85 | 7279 | (2300 26 NOV 86) |
| P | 3459.32 | 113.53 | 3376.00 | 4500.00 | 7279 | (2300 26 NOV 86) |

4365M AT MOORING 2. 1700 27 JAN 86 - 1300 12 APR 87. TAPE 3190/26.

| | | | | | | |
|---|---------|--------|---------|---------|-------|------------------|
| S | 12.71 | 9.31 | 0.80 | 53.00 | 8603 | (0300 21 JAN 87) |
| U | -9.67 | 11.38 | -50.90 | 20.30 | 8603 | (0300 21 JAN 87) |
| V | 0.79 | 4.96 | -26.70 | 24.70 | 8603 | (0300 21 JAN 87) |
| T | 0.19 | 0.04 | 0.05 | 0.49 | 10557 | (1300 12 APR 87) |
| P | 4524.85 | 103.67 | 4400.00 | 5092.00 | 10557 | (1300 12 APR 87) |

5500M AT MOORING 2. 1700 27 JAN 86 - 1300 12 APR 87. TAPE 5109/10.

| | | | | | | |
|---|--------|-------|--------|-------|-------|------------------|
| S | 15.94 | 13.56 | 0.80 | 64.30 | 10557 | (1300 12 APR 87) |
| U | -10.73 | 16.19 | -57.50 | 61.60 | 10557 | (1300 12 APR 87) |
| V | 2.56 | 7.36 | -32.20 | 38.20 | 10557 | (1300 12 APR 87) |
| T | 0.16 | 0.05 | 0.06 | 0.28 | 10557 | (1300 12 APR 87) |

(Speed, u, and v are given in cm/sec, Temperature in °C, Pressure in DB.)

MOORING 2. HOURLY UNFILTERED DATA

(1575 M) ENTIRE RECORD SHORT, LOW BATTERY VOLTAGE.

SPEED RECORD BRIDGED, LINES:

453 - 465 (1300 15 FEB 86 - 0100 16 FEB 86)

OFFSCALE PRESSURE VALUES, GAPS IN LINES:

250 - 282 (1800 8 FEB 86 - 1000 9 FEB 86)

310 - 320 (1400 9 FEB 86 - 0000 10 FEB 86)

1196 - 1211 (1200 18 MAR 86 - 0300 19 MAR 86)

1279 - 1292 (2300 21 MAR 86 - 1200 22 MAR 86)

1298 - 1307 (1800 22 MAR 86 - 0300 23 MAR 86).

(3325 M) ENTIRE RECORD SHORT, LOW BATTERY VOLTAGE.

(4365 M) POOR DATA QUALITY IN SPEED AND DIRECTION AFTER 21
JAN 87, RECORDS TERMINATED EARLY.

MOORING 2. LLP FILTERED 6-HOURLY DATA

1575M AT MOORING 2. 1800 28 JAN 86 - 1800 26 OCT 86. TAPE 6736/14.

| | MEAN | SD | MIN | MAX | LENGTH | EMDS AT |
|---|---------|-------|---------|---------|--------|------------------|
| U | -5.99 | 11.56 | -49.16 | 22.56 | 975 | (0600 29 SEP 86) |
| V | 4.03 | 7.21 | -17.22 | 27.61 | 975 | (0600 29 SEP 86) |
| T | 1.81 | 0.29 | 0.43 | 2.55 | 1085 | (1800 26 OCT 86) |
| P | 1631.86 | 47.32 | 1596.70 | 2005.96 | 878 | (0000 16 SEP 86) |
| S | 34.72 | 5.71 | 34.60 | 34.83 | 1072 | (1200 23 OCT 86) |

2325M AT MOORING 2. FLOODED, NO DATA.

TAPE 4575

3325M AT MOORING 2. 1800 28 JAN 86 - 1800 25 NOV 86. TAPE 497/63.

| | | | | | | |
|---|---------|--------|---------|---------|------|------------------|
| U | -10.58 | 11.19 | -52.48 | 12.22 | 1191 | (0600 22 NOV 86) |
| V | 1.88 | 5.10 | -10.46 | 22.77 | 1191 | (0600 22 NOV 86) |
| T | 0.44 | 0.14 | 0.11 | 0.84 | 1205 | (1800 25 NOV 86) |
| P | 3459.52 | 113.21 | 3381.76 | 4427.11 | 1205 | (1800 25 NOV 86) |

4365M AT MOORING 2. 1800 28 JAN 86 - 0600 11 APR 87. TAPE 3190/26.

| | | | | | | |
|---|---------|--------|---------|---------|------|------------------|
| U | -9.65 | 11.09 | -43.17 | 16.36 | 1425 | (1800 19 JAN 87) |
| V | 0.79 | 4.07 | -17.72 | 16.76 | 1425 | (1800 19 JAN 87) |
| T | 0.19 | 0.04 | 0.08 | 0.44 | 1751 | (0600 11 APR 87) |
| P | 4524.91 | 103.41 | 4412.08 | 5047.05 | 1751 | (0600 11 APR 87) |

5500M AT MOORING 2. 1800 28 JAN 86 - 0600 11 APR 87. TAPE 5109/10.

| | | | | | | |
|---|--------|-------|--------|-------|------|------------------|
| U | -10.77 | 15.72 | -49.60 | 56.78 | 1751 | (0600 11 APR 87) |
| V | 2.58 | 6.45 | -19.46 | 28.40 | 1751 | (0600 11 APR 87) |
| T | 0.16 | 0.05 | 0.07 | 0.27 | 1751 | (0600 11 APR 87) |

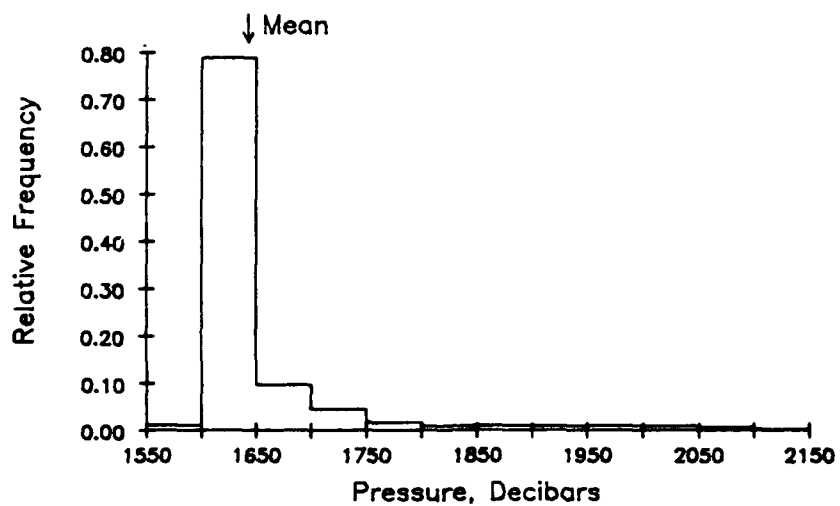
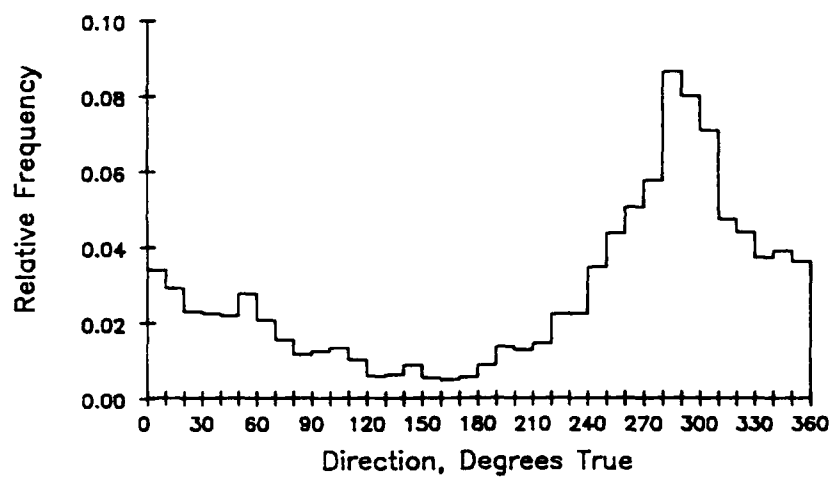
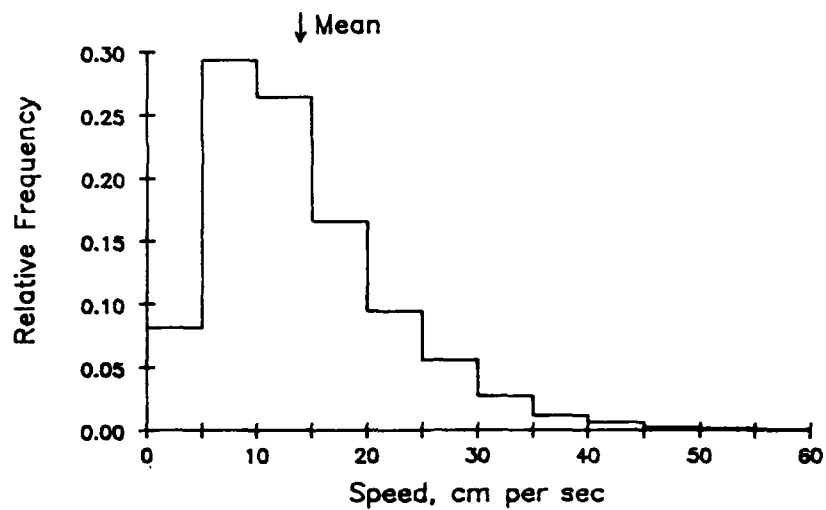
(1575 M) ENTIRE RECORD SHORT, LOW BATTERY VOLTAGE
 UNFILTERED SPEED RECORD BRIDGED.
 OFFSCALE PRESSURES GAPS IN UNFILTERED RECORD,
 LLP GAPS, LINES:
 35 - 54 (0000 6 FEB 86 - 0000 11 FEB 86)
 192 - 202 (1200 17 MAR 86 - 0000 20 MAR 86)
 206 - 218 (0000 21 MAR 86 - 0000 24 MAR 86)

(3325 M) ENTIRE RECORD SHORT, LOW BATTERY VOLTAGE

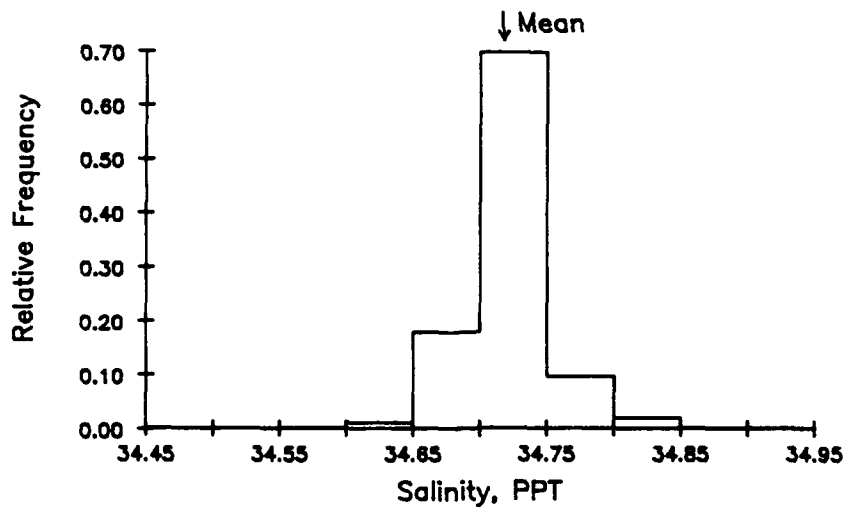
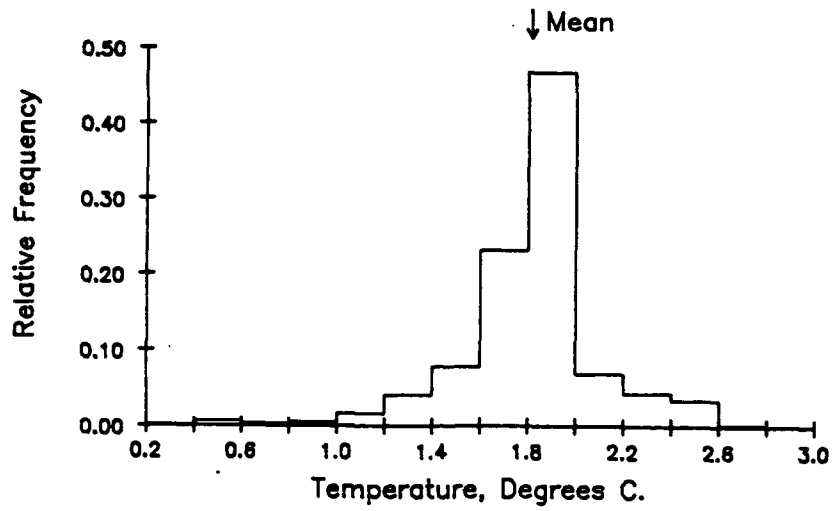
(4365 M) POOR QUALITY DATA, RECORD TERMINATED EARLY.

(Speed, u, and v are given in cm/sec, Temperature in °C, Pressure in DB, and Corrected Salinity in ppt.)

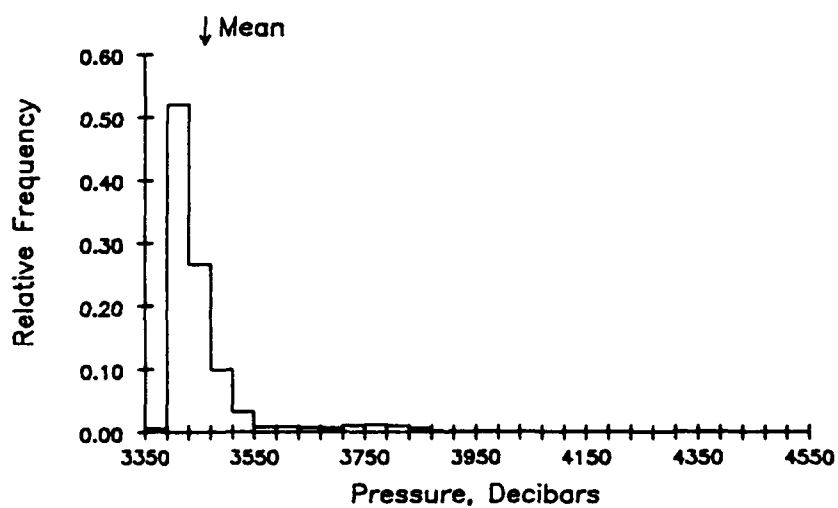
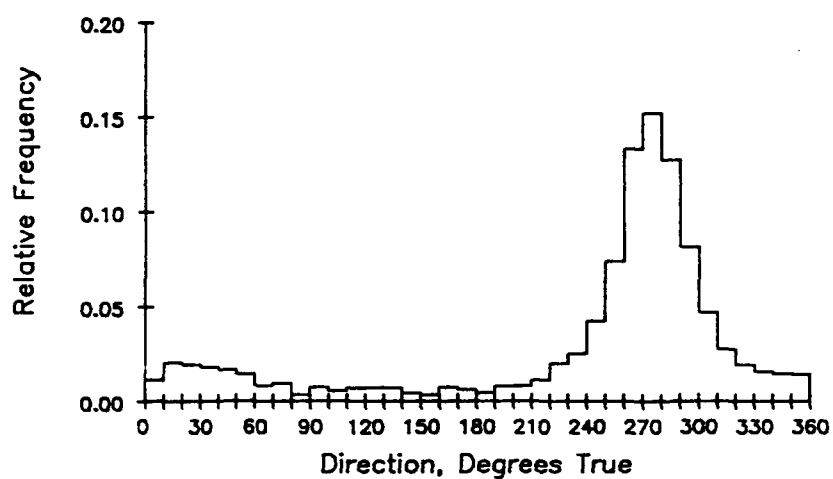
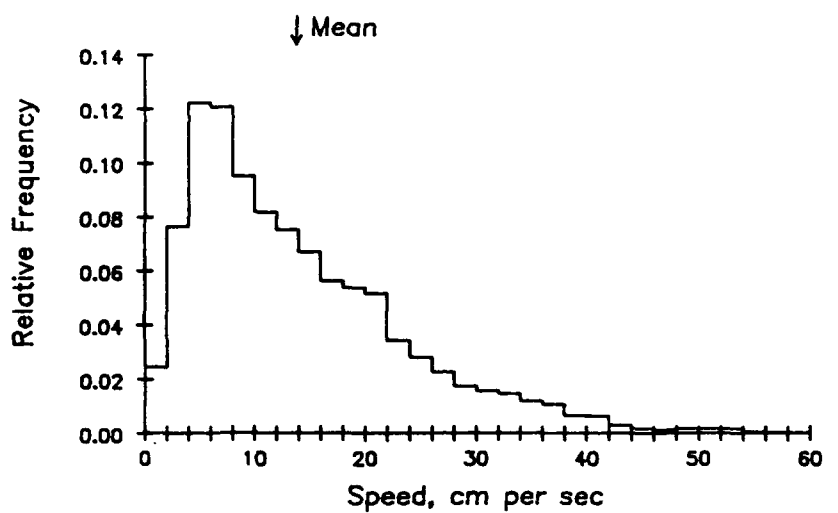
1575 METERS AT MOORING 2. TAPE 6736/14.



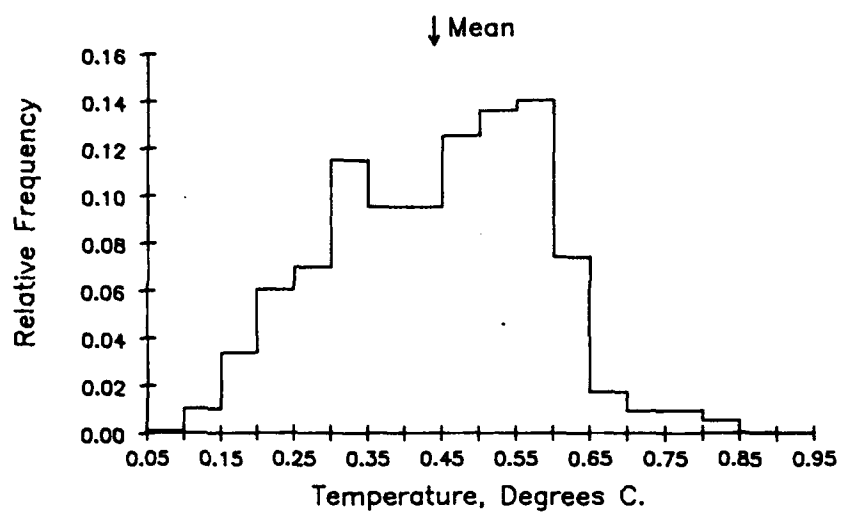
1575 METERS AT MOORING 2. TAPE 6736/14.



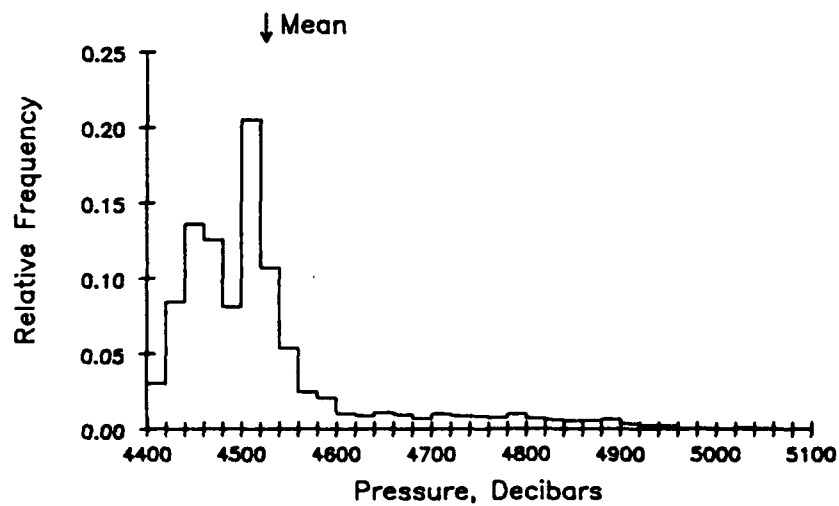
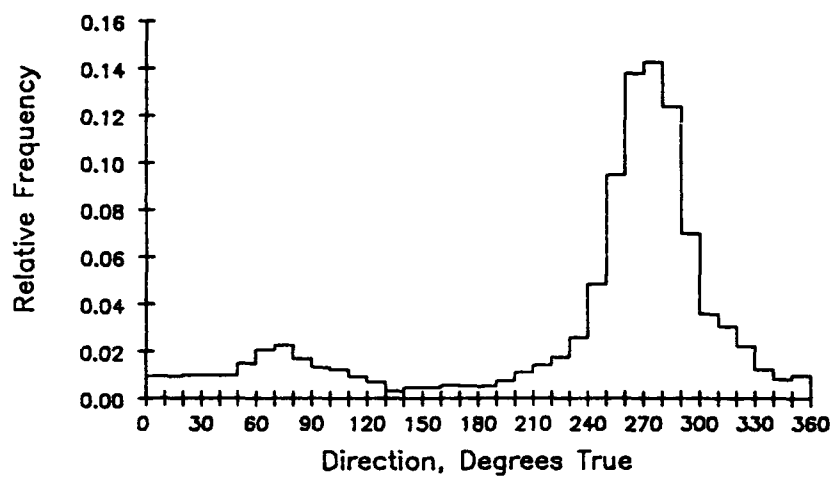
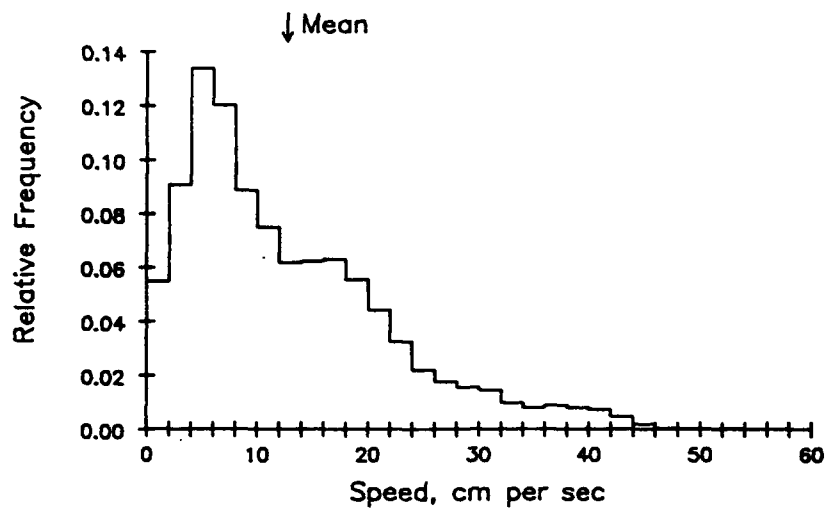
3325 METERS AT MOORING 2. TAPE 497/63.



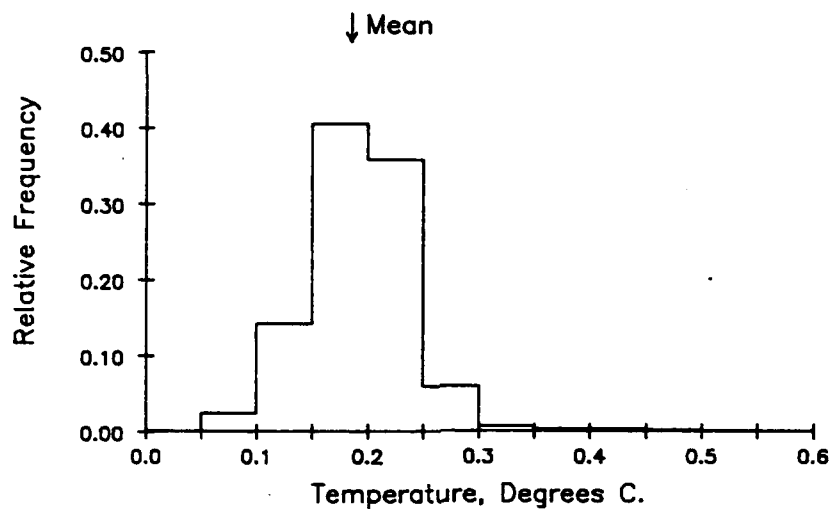
3325 METERS AT MOORING 2. TAPE 497/63.



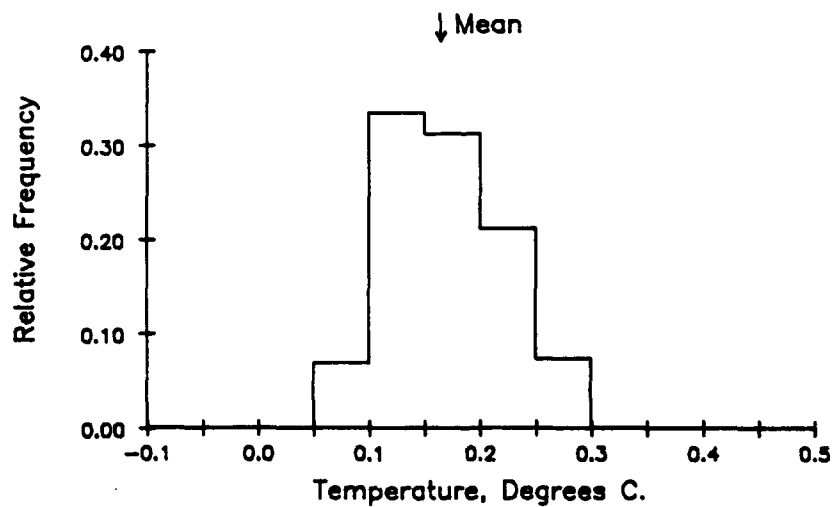
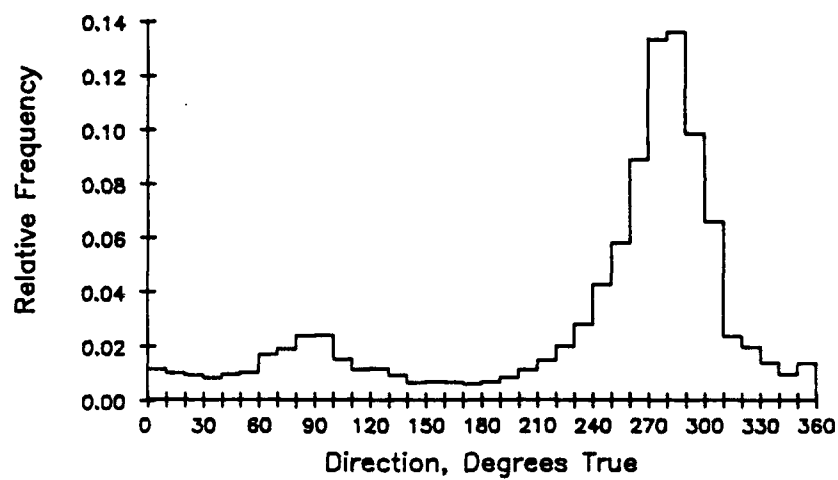
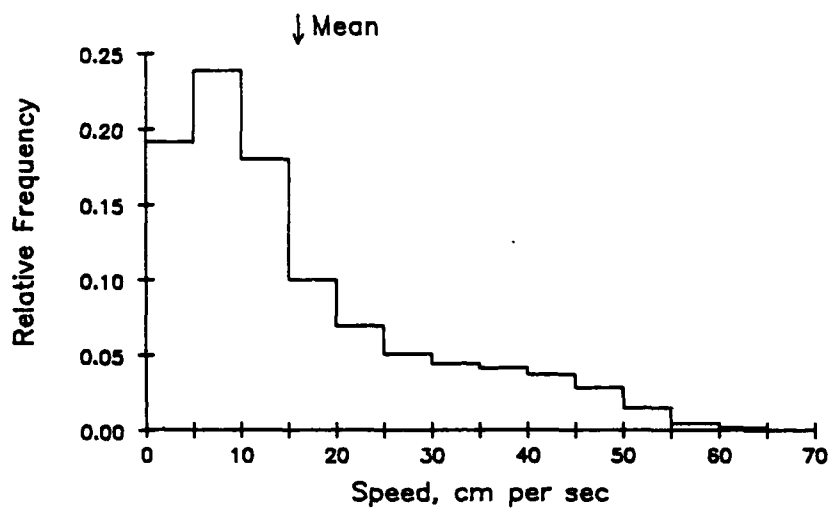
4365 METERS AT MOORING 2. TAPE 3190/26.



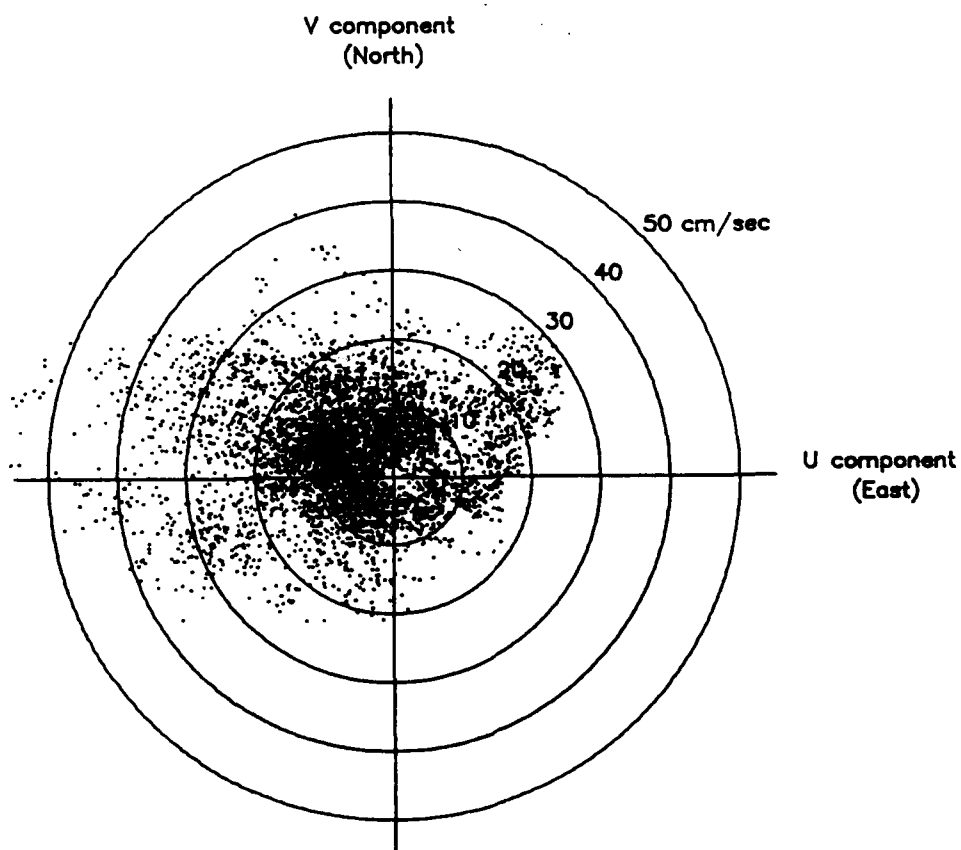
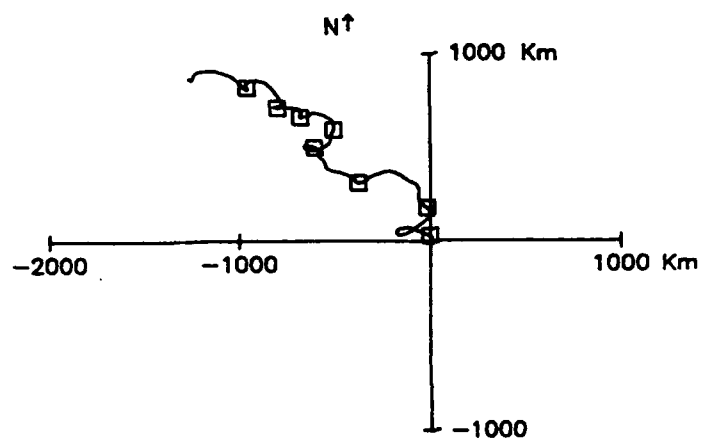
4365 METERS AT MOORING 2. TAPE 3190/26.



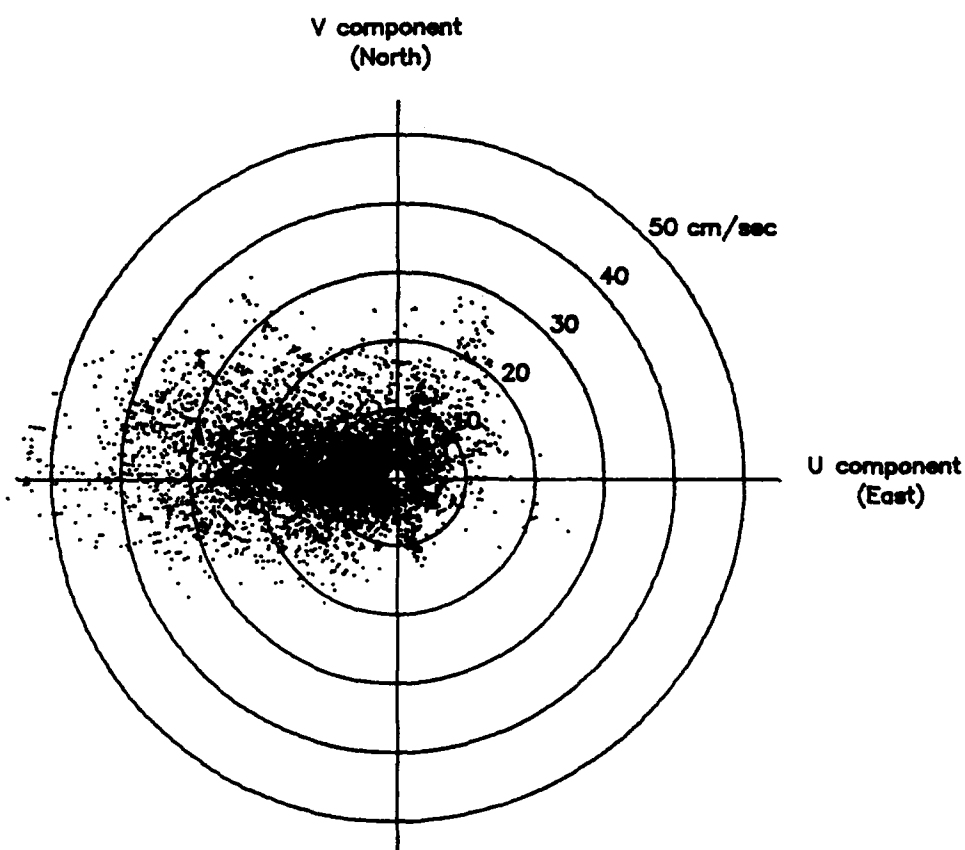
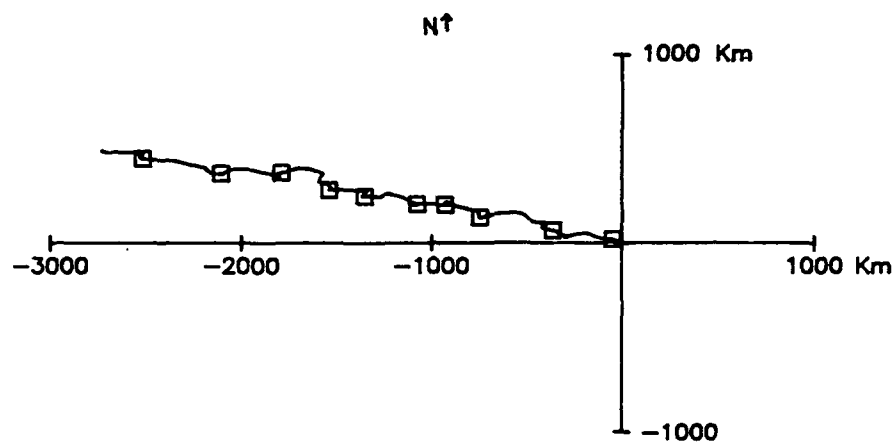
5500 METERS AT MOORING 2. TAPE 5109/10.



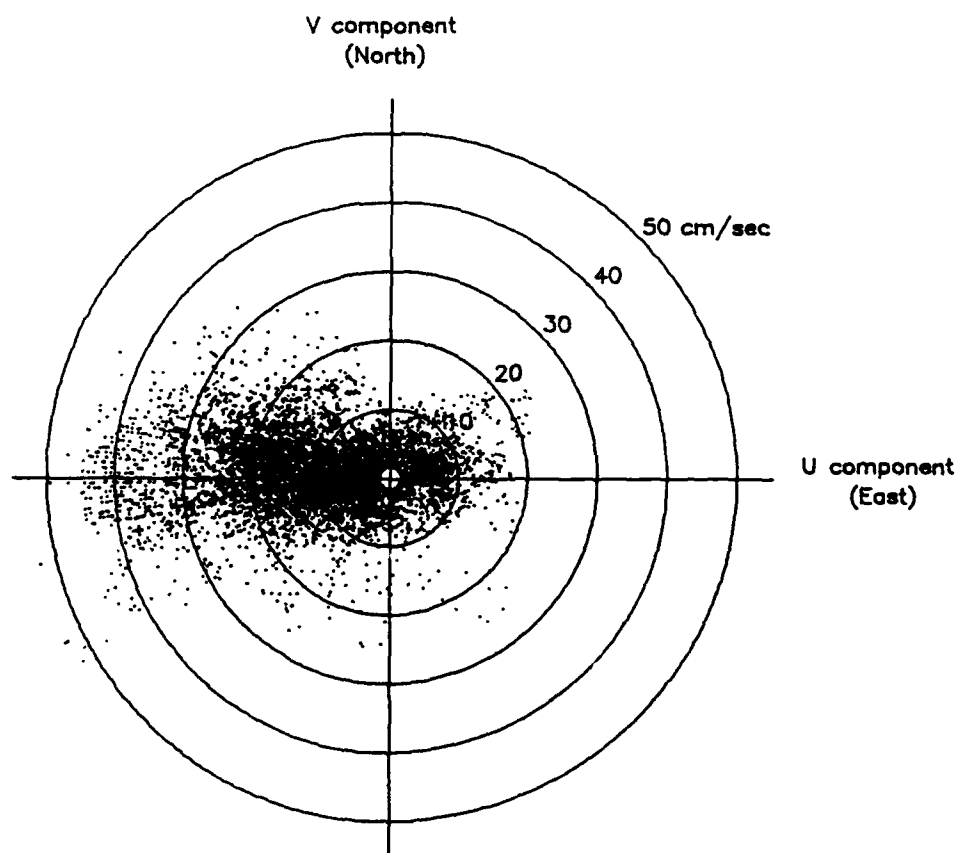
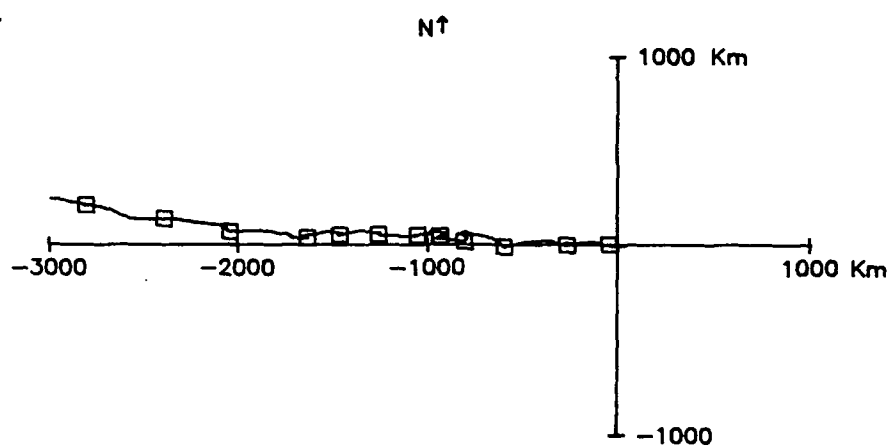
1575M AT MOORING 2. 27 JAN 86 - 30 SEP 86. TAPE 6736/14



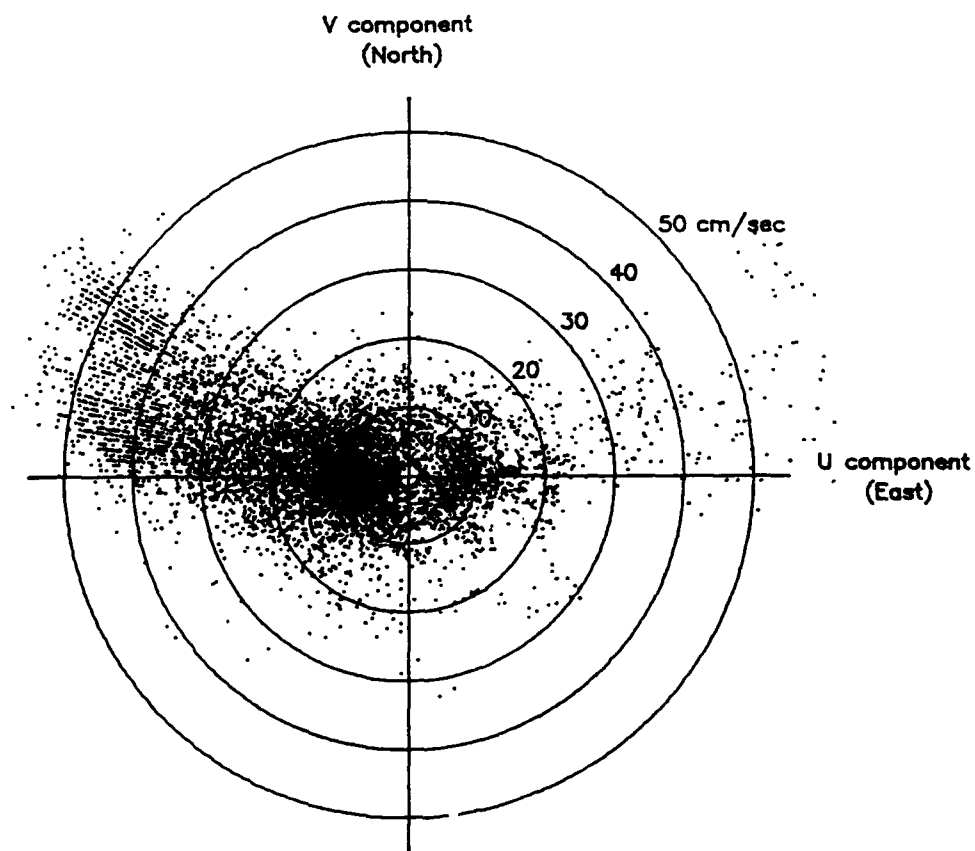
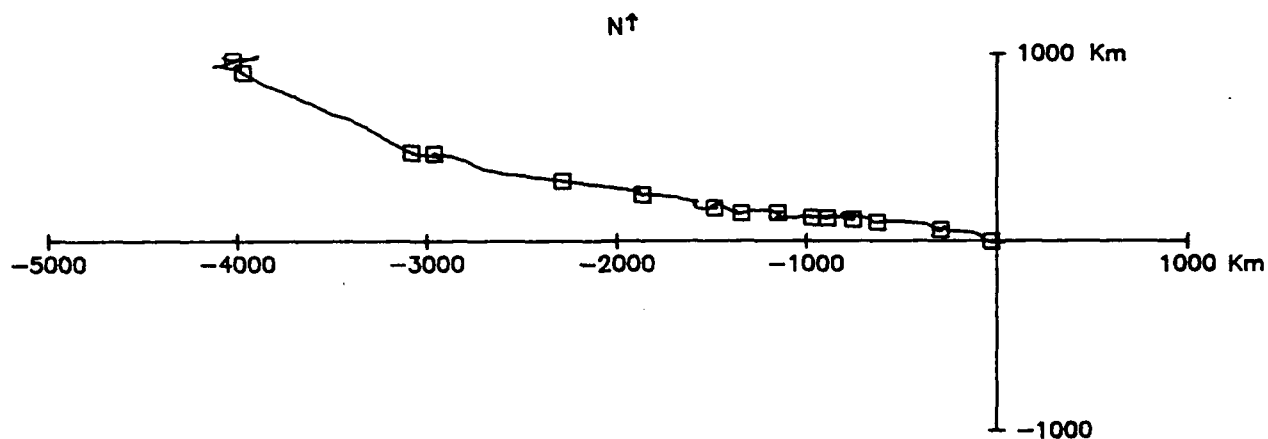
3325 M AT MOORING 2. 27 JAN 86 - 23 NOV 86. TAPE 497/63.



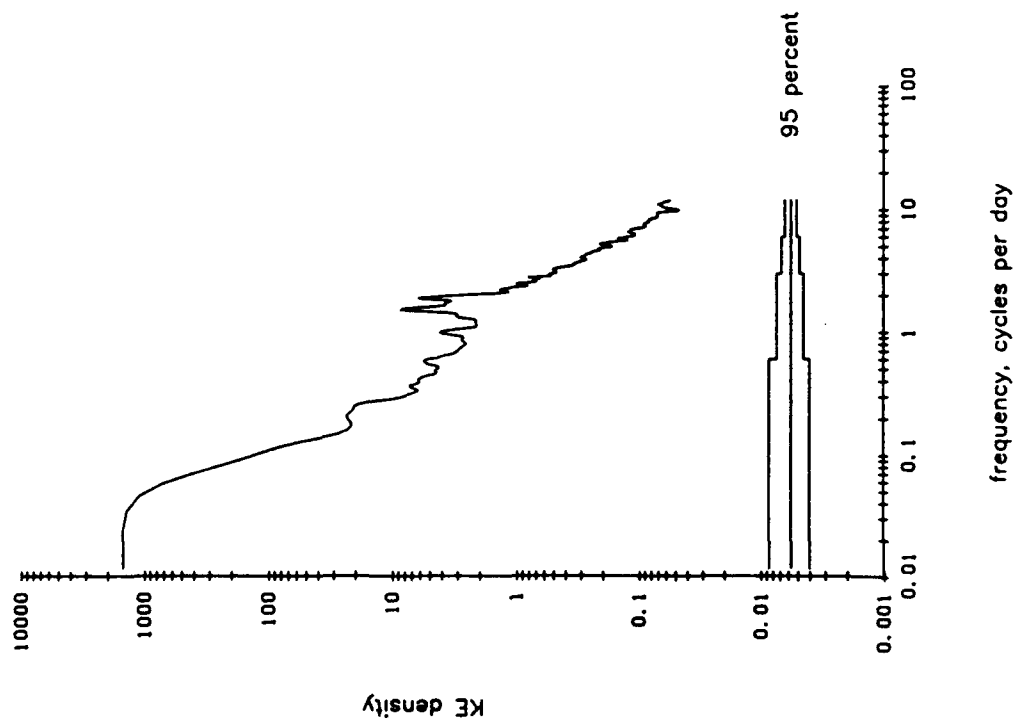
4365M AT MOORING 2. 27 JAN 86 - 12 APR 87. TAPE 3190/26.



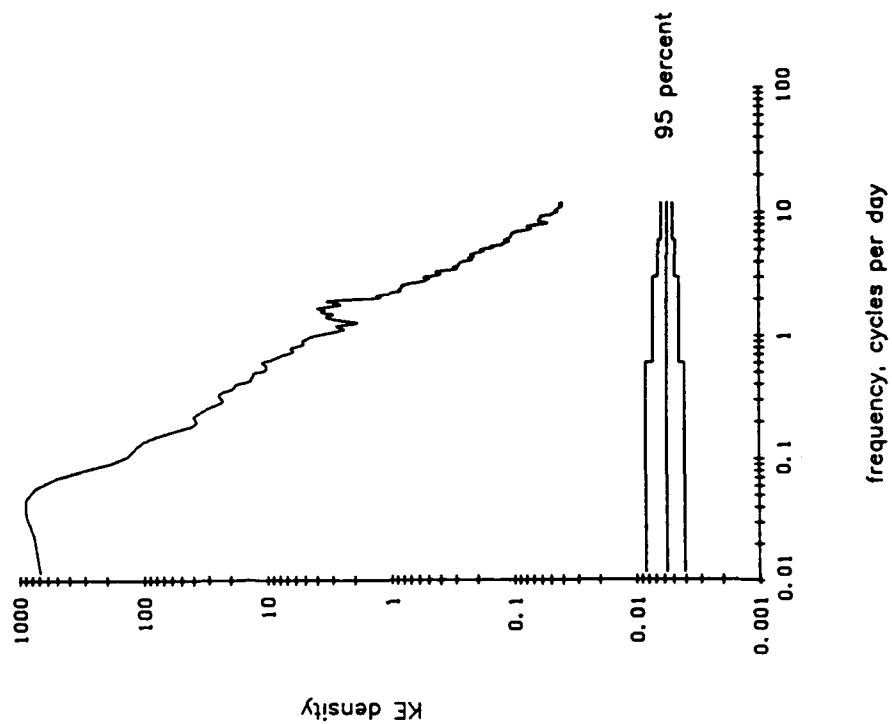
5500M AT MOORING 2. 27 JAN 86 - 12 APR 87. TAPE 5109/10



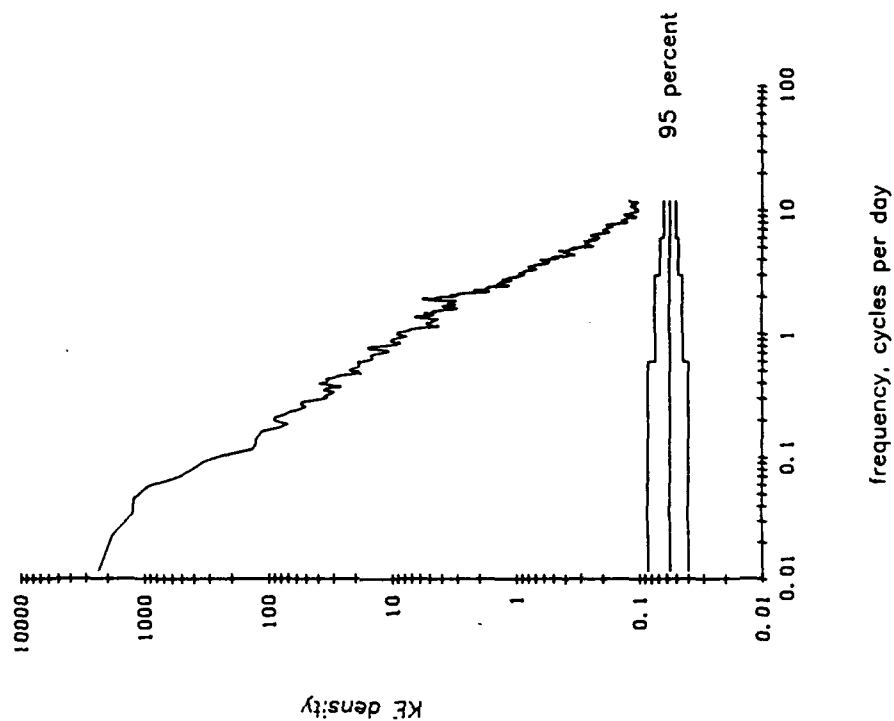
Unfiltered current. 1575 m at Mooring 2.
Both components



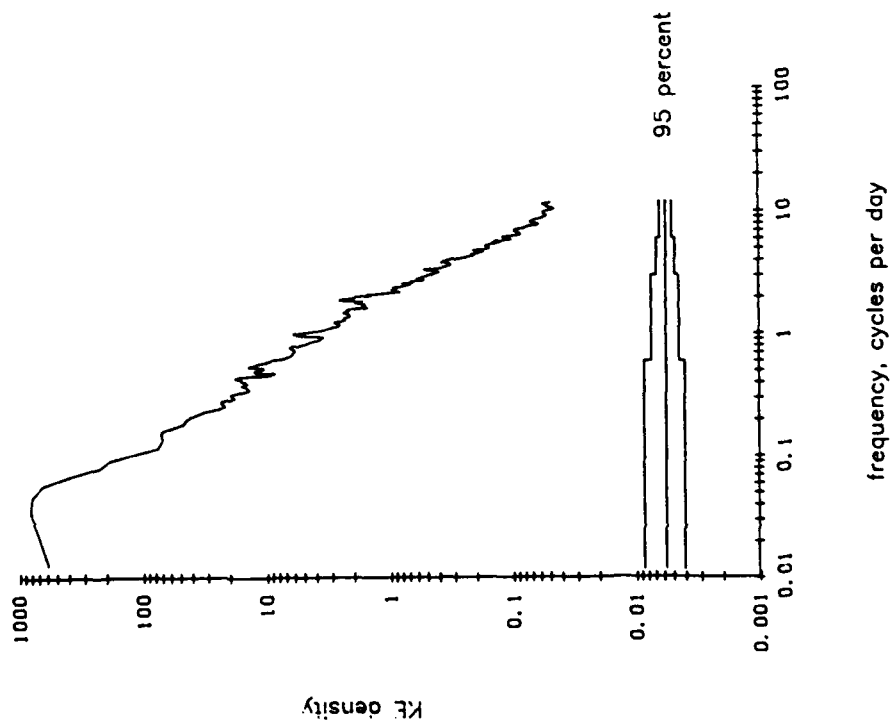
Unfiltered current. 3325 m at Mooring 2.
Both components



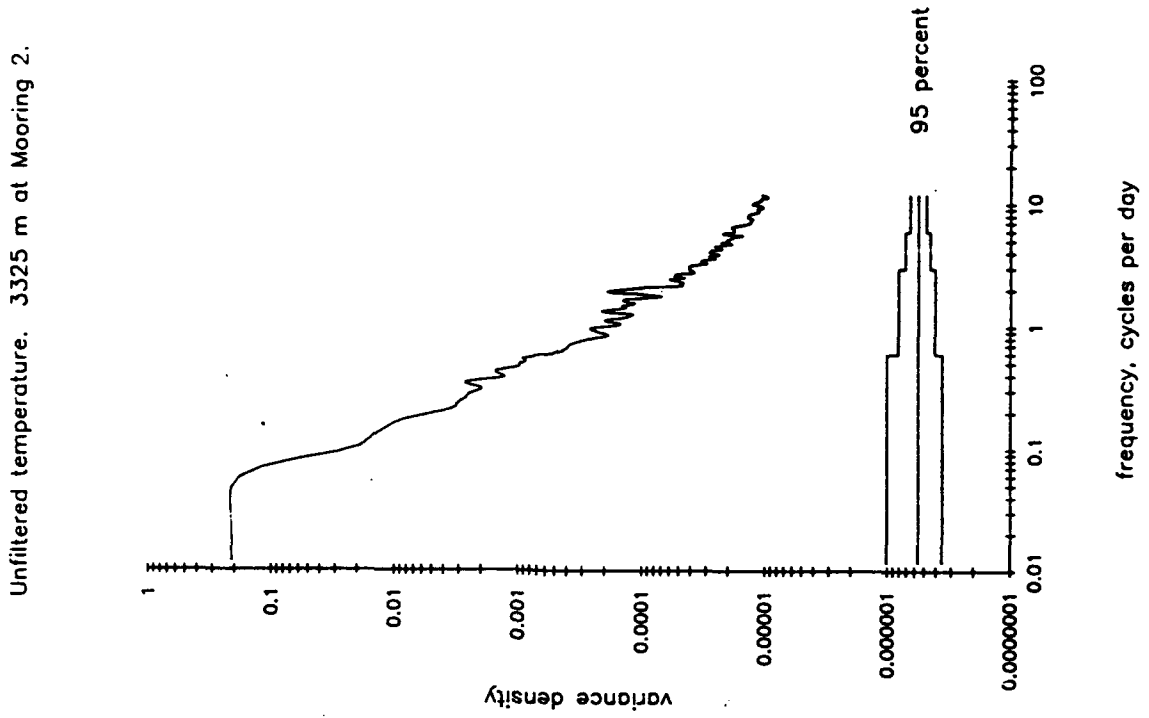
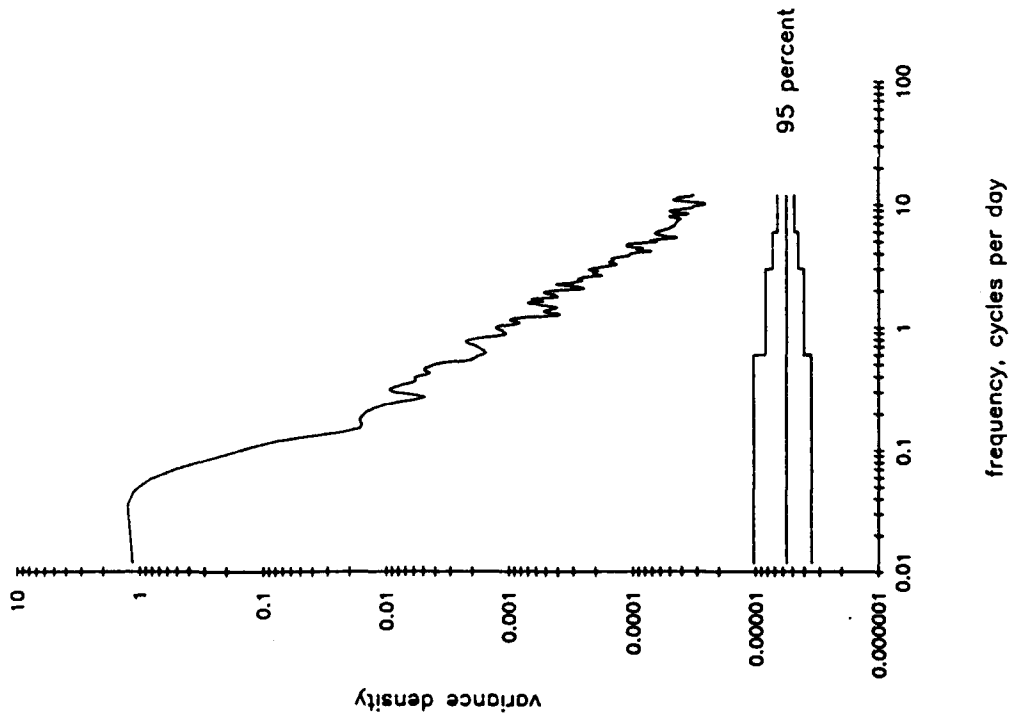
Unfiltered current. 5500 m at Mooring 2.
Both components



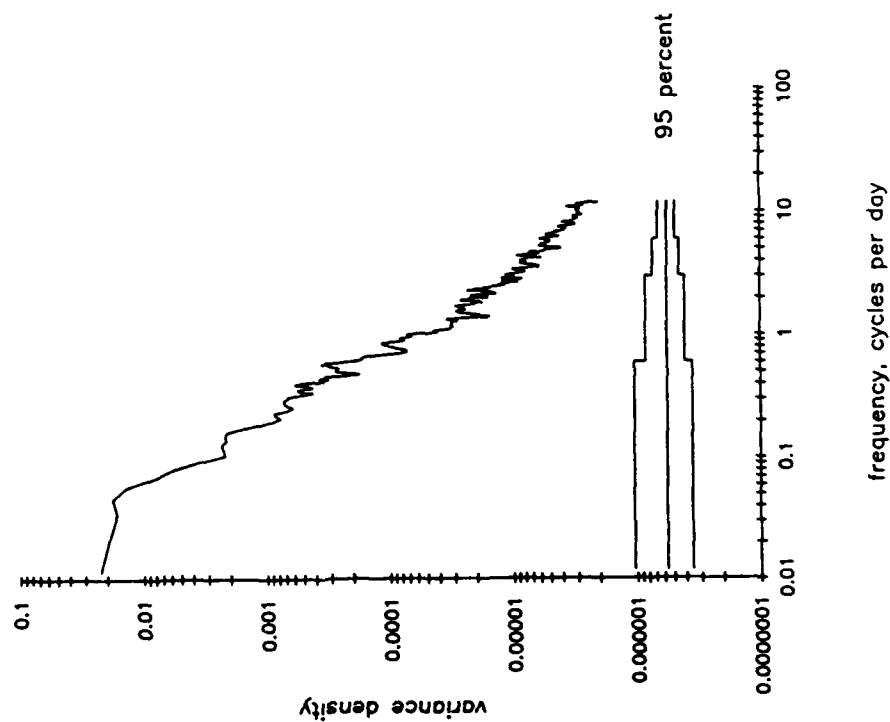
Unfiltered current. 4365 m at Mooring 2.
Both components



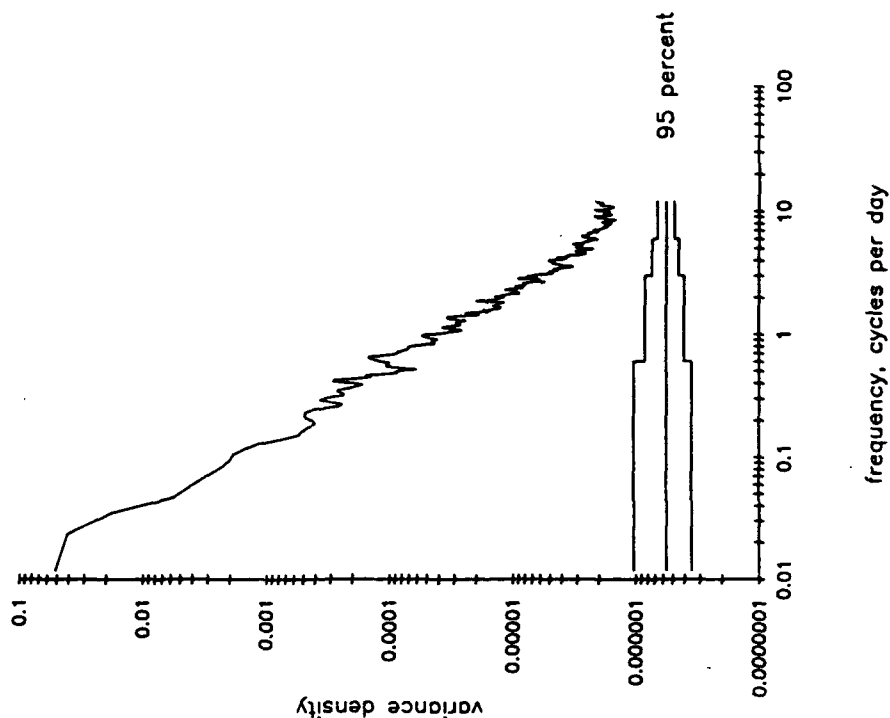
Unfiltered temperature. 1575 m at Mooring 2.

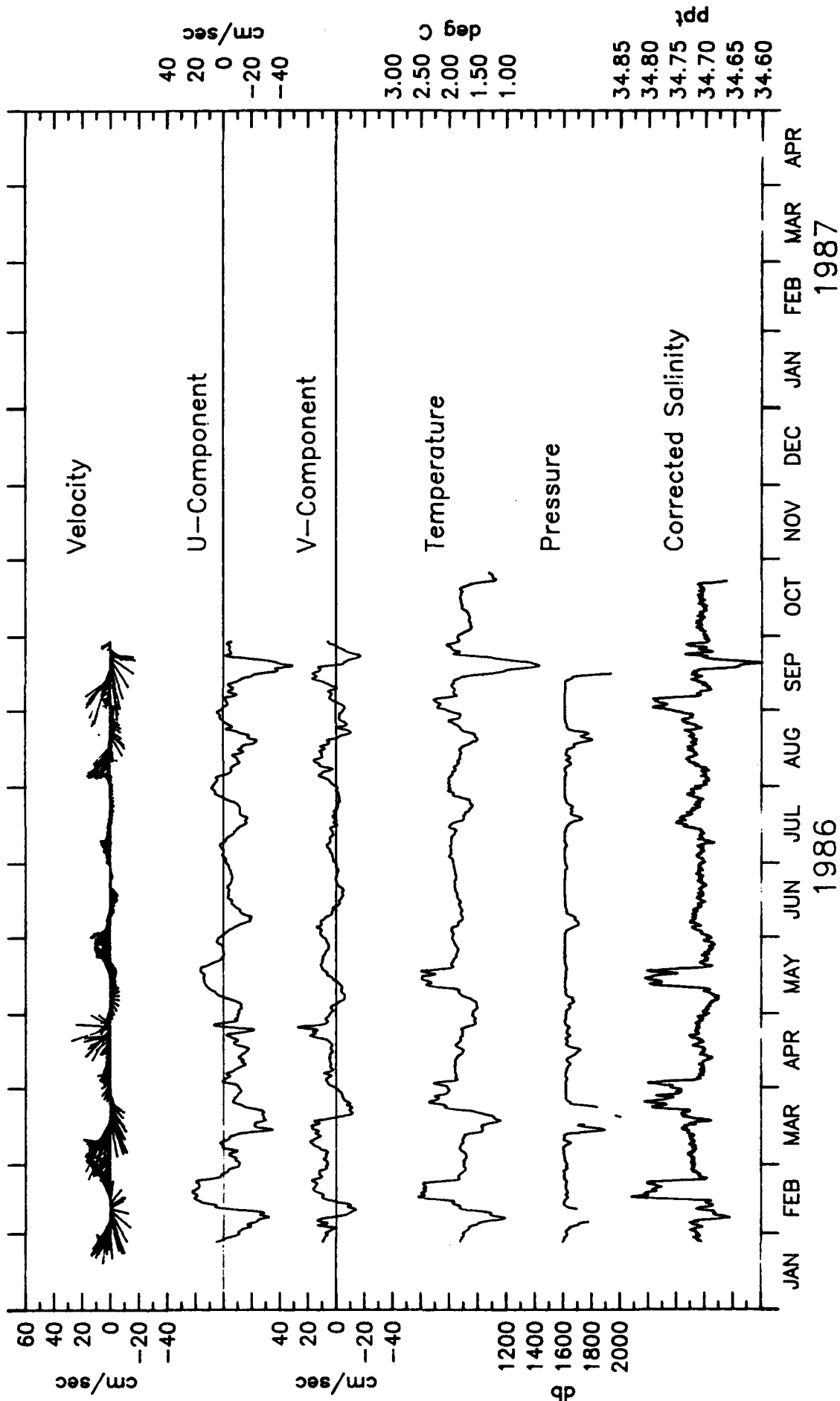


Unfiltered temperature. 4365 m at Mooring 2.

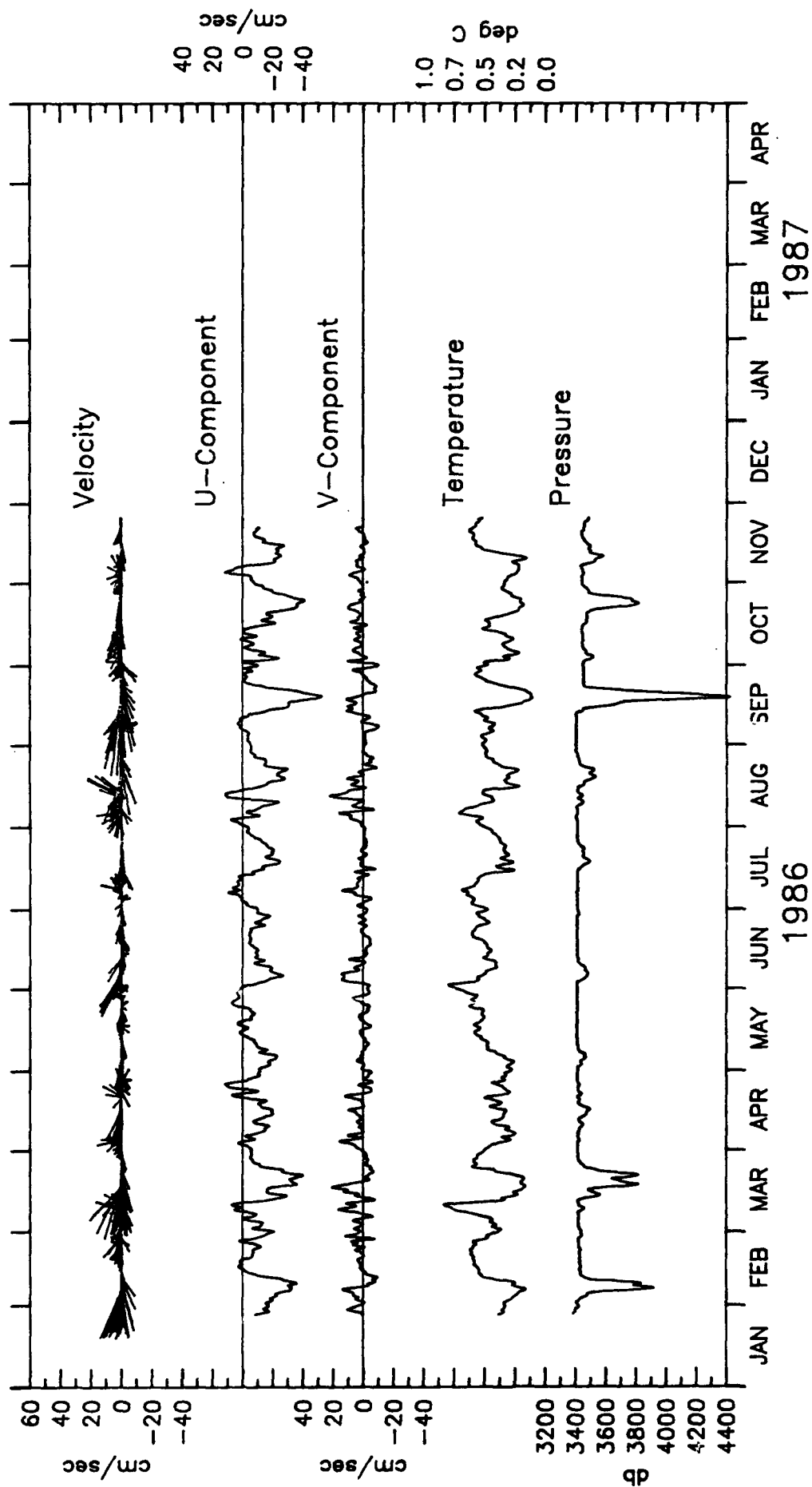


Unfiltered temperature. 5500 m at Mooring 2.

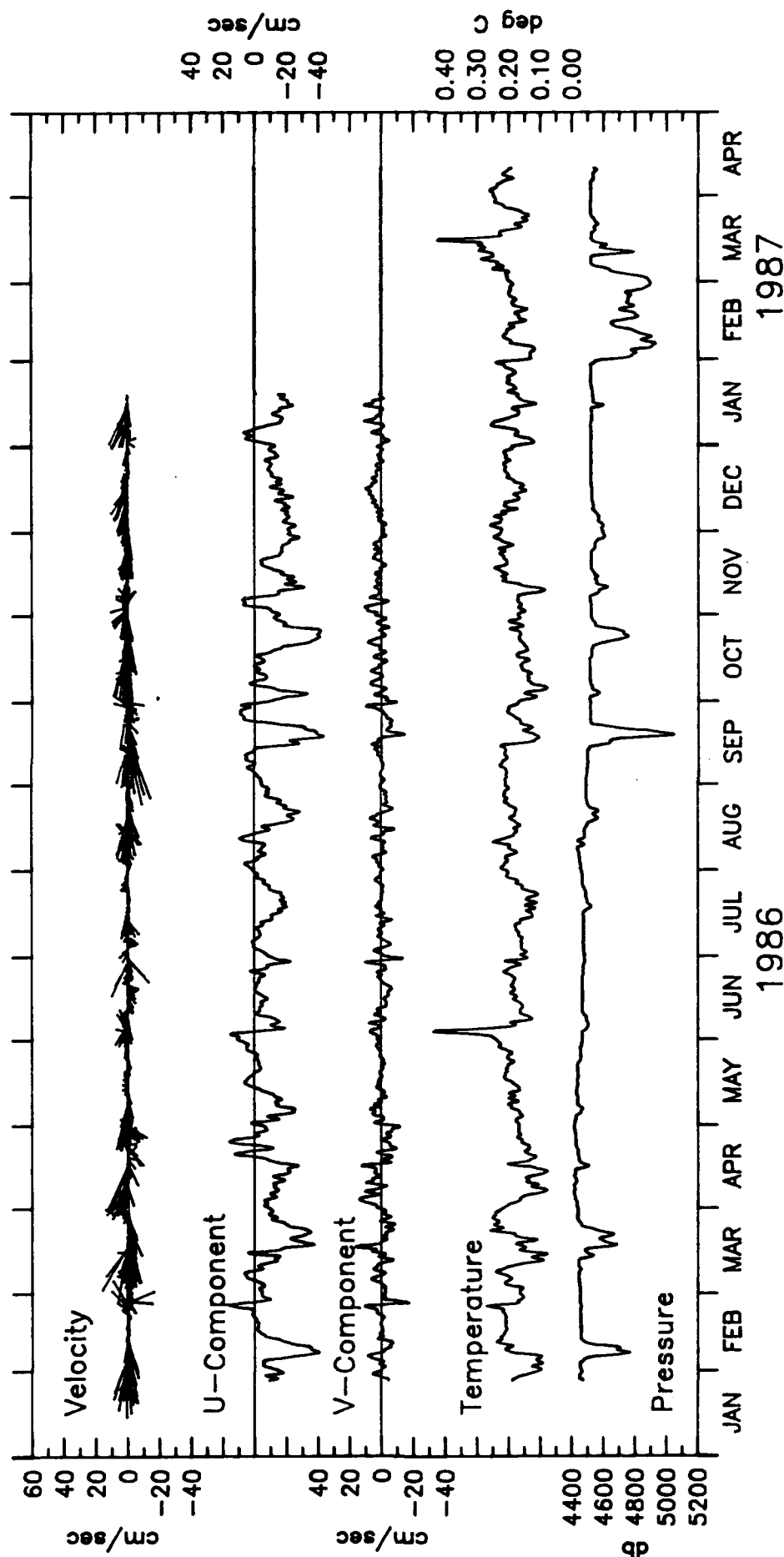




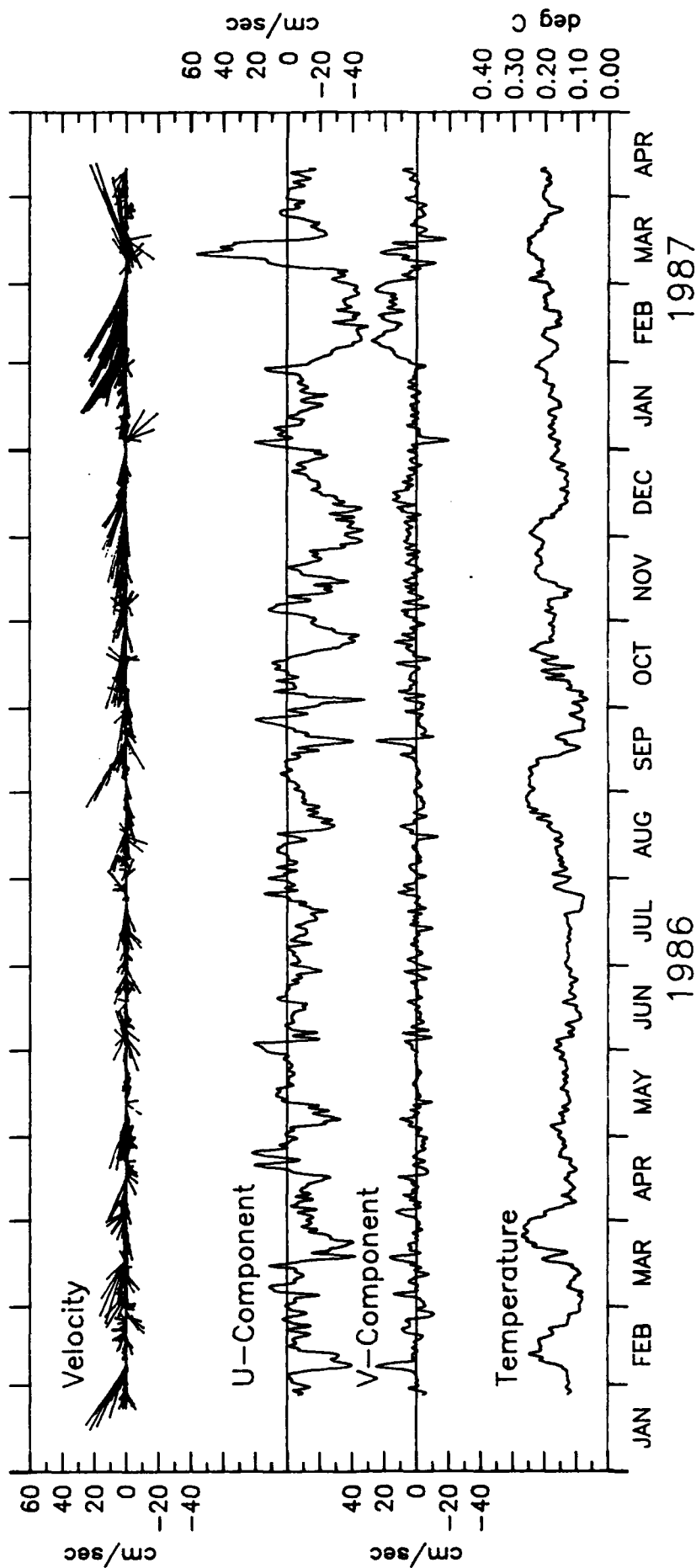
1575M AT MOORING 2.



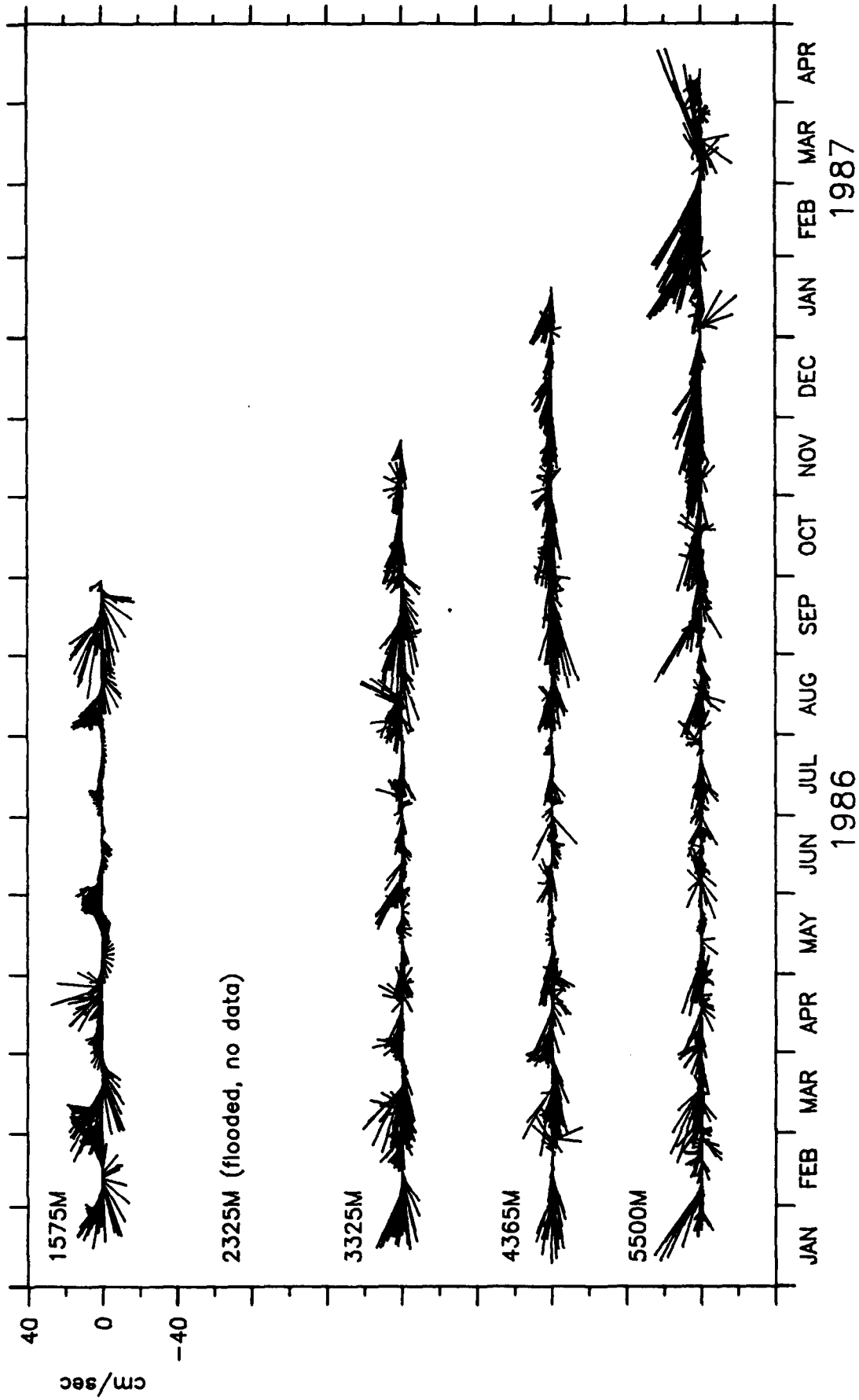
3325M AT MOORING 2.



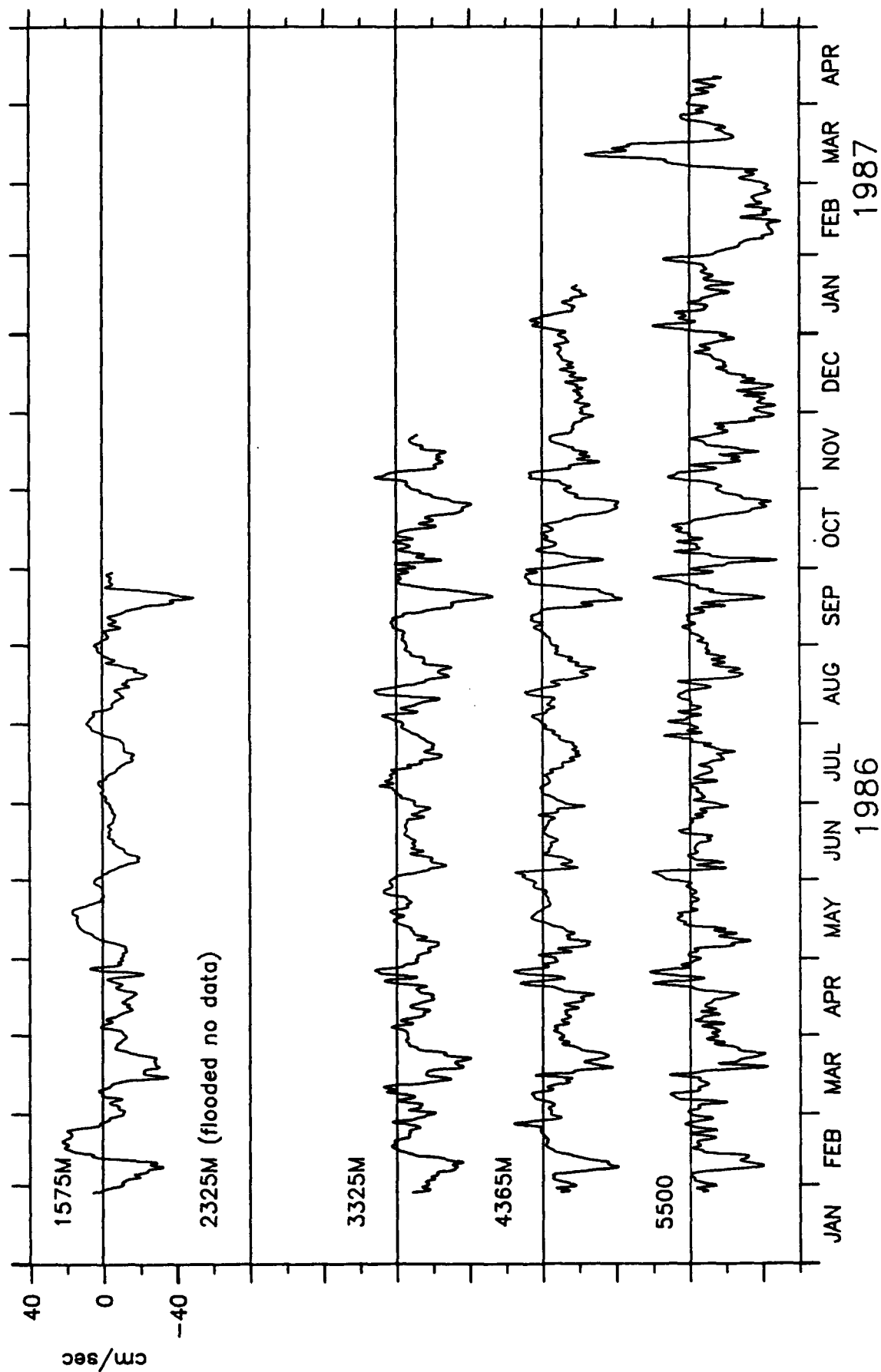
4365M AT MOORING 2.



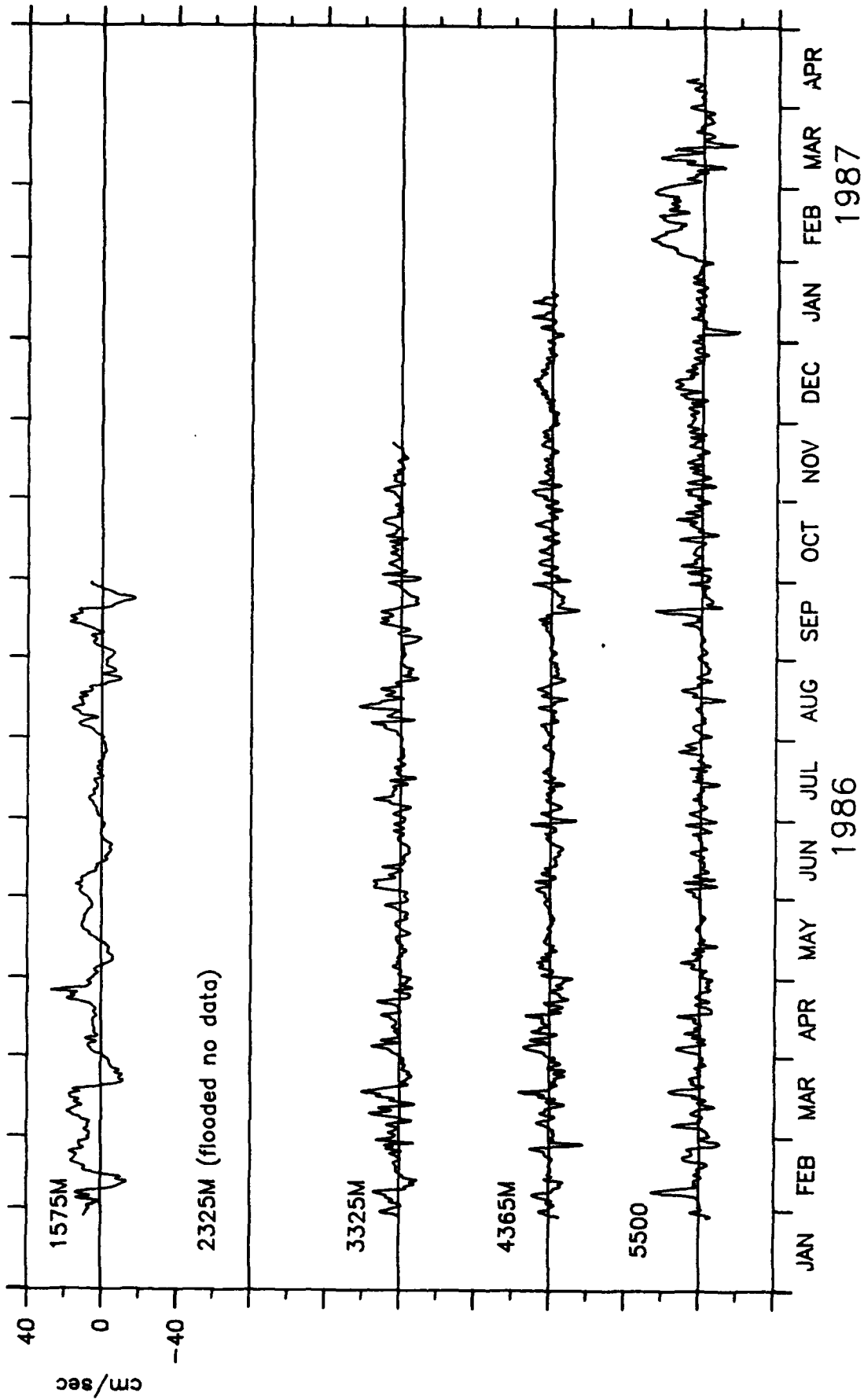
5500M AT MOORING 2.



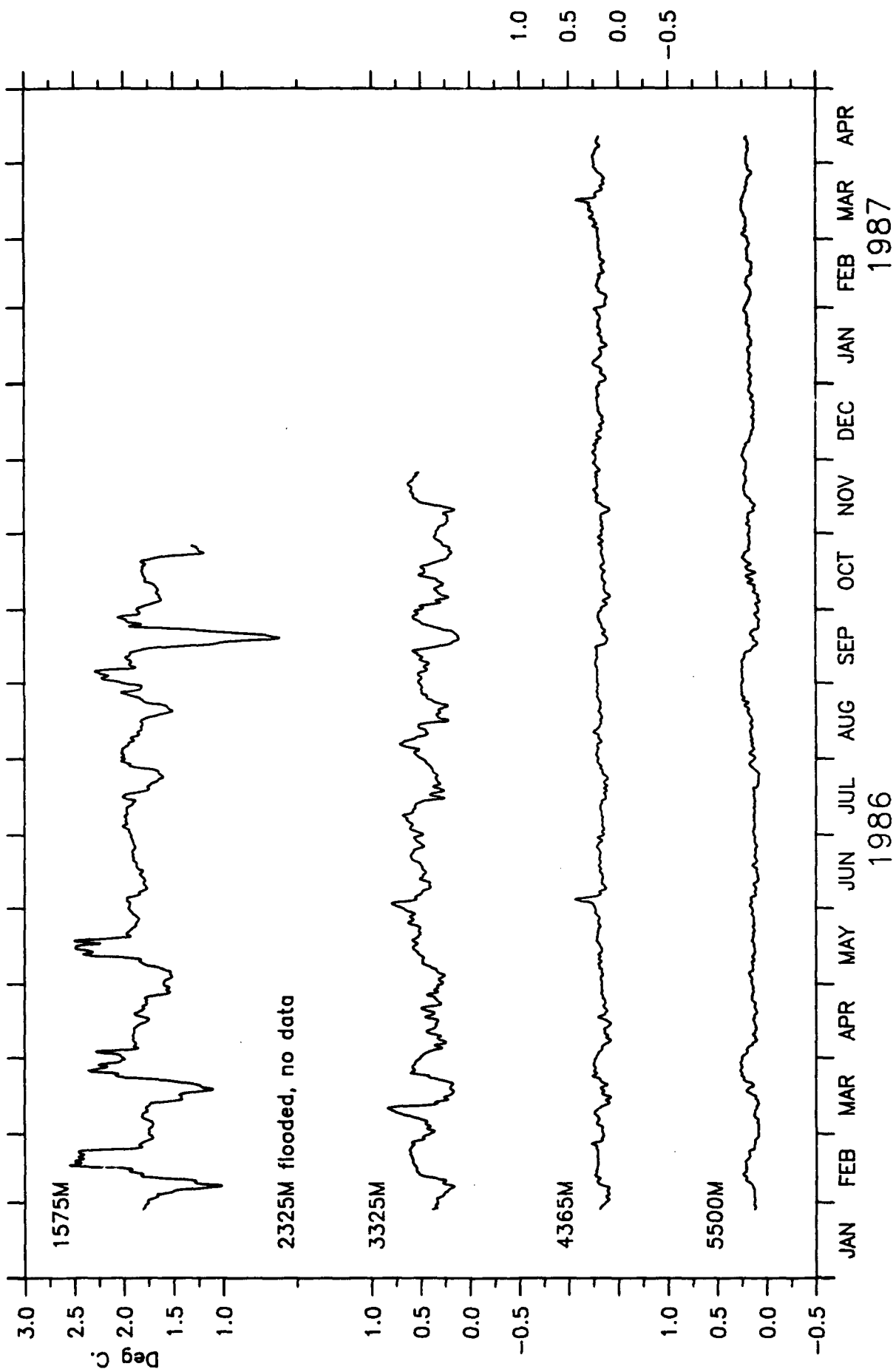
VELOCITY, MOORING 2.



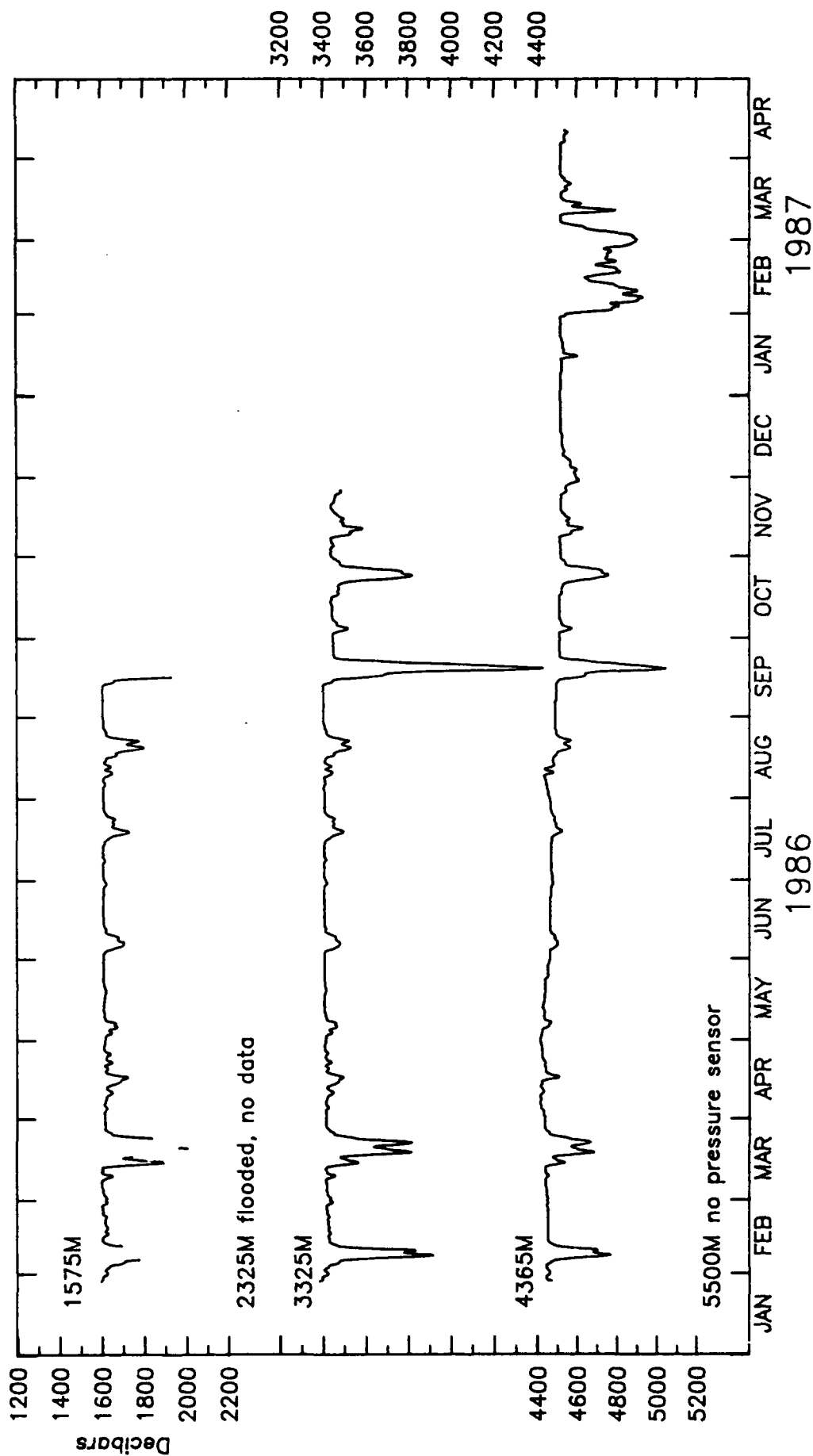
U-COMPONENT, MOORING 2.



V-COMPONENT, MOORING 2.



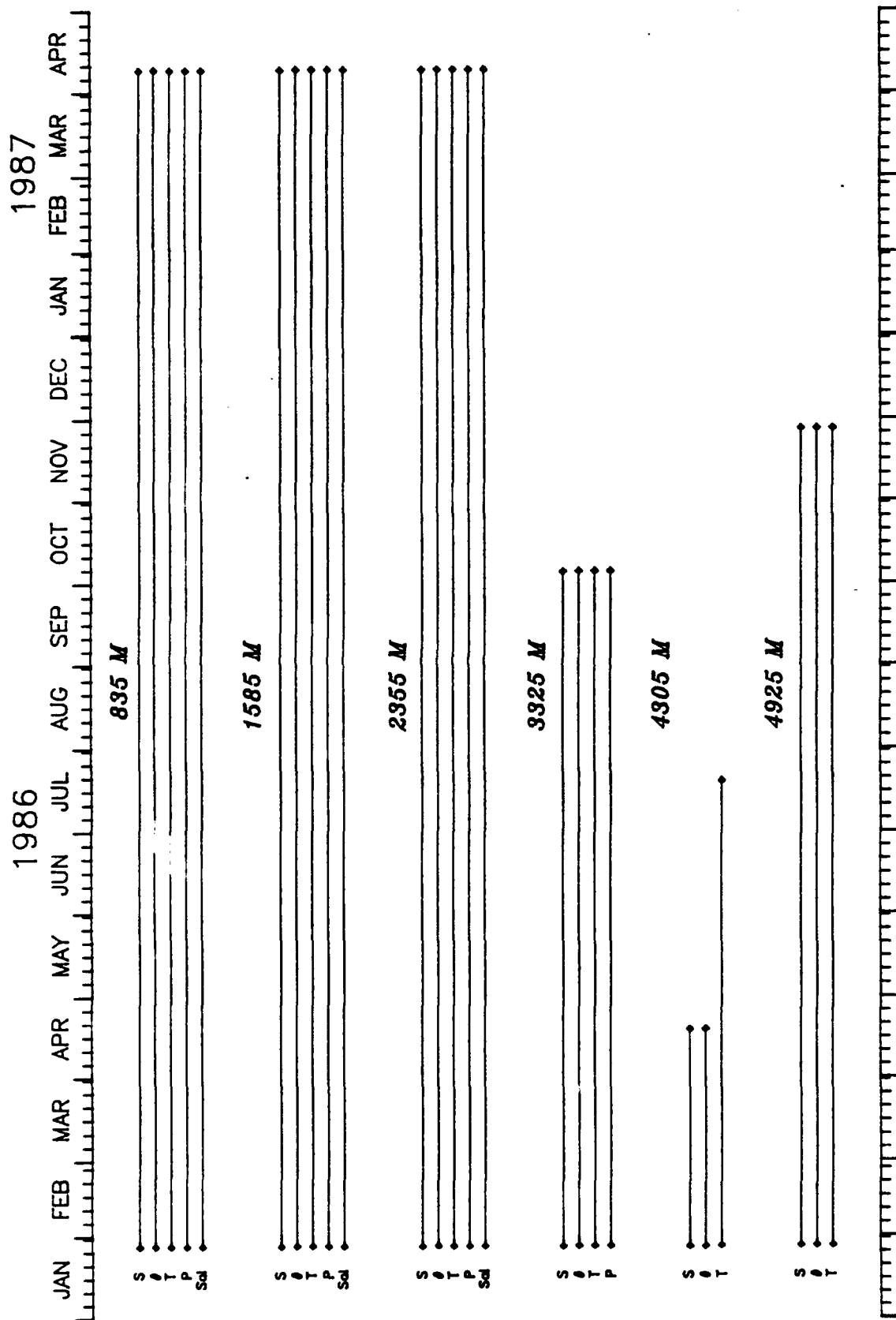
TEMPERATURE, MOORING 2.



PRESSURE, MOORING 2

MOORING 3

49°11.00'S, 41°12.99'W



DATA RETURN FROM MOORING 3.

MOORING 3. UNFILTERED HOURLY DATA

835M AT MOORING 3. 2200 27 JAN 86 - 1300 10 APR 87. TAPE 7217/11.

| | MEAN | SD | MIN | MAX | LENGTH | ENDS AT |
|---|--------|--------|--------|---------|--------|------------------|
| S | 19.87 | 10.44 | 0.80 | 55.10 | 10504 | (1300 10 APR 87) |
| U | 5.15 | 16.78 | -44.60 | 50.10 | 10504 | (1300 10 APR 87) |
| V | 4.82 | 13.13 | -39.30 | 47.90 | 10504 | (1300 10 APR 87) |
| T | 2.27 | 0.17 | 1.64 | 2.78 | 10504 | (1300 10 APR 87) |
| P | 906.97 | 101.34 | 841.10 | 1501.60 | 10504 | (1300 10 APR 87) |

1585M AT MOORING 3. 0100 28 JAN 86 - 1300 10 APR 87. TAPE 4579/5.

| | | | | | | |
|---|---------|-------|---------|---------|-------|------------------|
| S | 14.88 | 7.81 | 0.80 | 43.90 | 10501 | (1300 10 APR 87) |
| U | -0.49 | 12.37 | -43.90 | 34.70 | 10501 | (1300 10 APR 87) |
| V | 4.61 | 10.39 | -32.80 | 38.50 | 10501 | (1300 10 APR 87) |
| T | 1.93 | 0.33 | 1.11 | 2.79 | 10501 | (1300 10 APR 87) |
| P | 1662.77 | 86.66 | 1603.90 | 2217.70 | 10398 | (1300 10 APR 87) |

2355M AT MOORING 3. 2300 27 JAN 86 - 1300 10 APR 87. TAPE 4577/5.

| | | | | | | |
|---|---------|-------|---------|---------|-------|------------------|
| S | 12.84 | 8.33 | 0.80 | 50.00 | 10503 | (1300 10 APR 87) |
| U | -3.97 | 10.94 | -45.10 | 32.20 | 10503 | (1300 10 APR 87) |
| V | 4.35 | 8.94 | -27.80 | 43.10 | 10503 | (1300 10 APR 87) |
| T | 1.25 | 0.24 | 0.59 | 2.06 | 10503 | (1300 10 APR 87) |
| P | 2442.15 | 88.44 | 2388.00 | 2995.30 | 10503 | (1300 10 APR 87) |

3325M AT MOORING 3. 0000 28 JAN 86 - 1600 7 OCT 87. TAPE 501/61.

| | | | | | | |
|---|---------|-------|---------|---------|------|-----------------|
| S | 11.80 | 7.68 | 0.70 | 44.60 | 6065 | (1600 7 OCT 86) |
| U | -6.50 | 8.87 | -44.20 | 23.30 | 6065 | (1600 7 OCT 86) |
| V | 3.68 | 7.98 | -23.60 | 30.50 | 6065 | (1600 7 OCT 86) |
| T | 0.47 | 0.12 | 0.13 | 0.82 | 6065 | (1600 7 OCT 86) |
| P | 3412.87 | 45.97 | 3376.00 | 3773.00 | 6065 | (1600 7 OCT 86) |

4305M AT MOORING 3. 2300 27 JAN 86 - 1200 21 JUL 86. TAPE 1536/25.

| | | | | | | |
|---|-------|-------|--------|-------|------|------------------|
| S | 14.47 | 9.81 | 0.80 | 47.70 | 1979 | (1000 20 APR 86) |
| U | -7.93 | 12.11 | -40.50 | 17.90 | 1979 | (1000 20 APR 86) |
| V | 4.62 | 8.65 | -20.60 | 39.00 | 1979 | (1000 20 APR 86) |
| T | 0.16 | 0.04 | -0.01 | 0.27 | 4190 | (1200 21 JUL 86) |

(Speed, u, and v are given in cm/sec, Temperature in °C, Pressure in DB.)

MOORING 3. UNFILTERED HOURLY DATA

4925M AT MOORING 3. 2300 27 JAN 86 - 0000 29 NOV 86. TAPE 1538/34.

| | MEAN | SD | MIN | MAX | LENGTH | EMDS AT |
|---|--------|-------|--------|-------|--------|------------------|
| S | 17.55 | 10.03 | 0.80 | 57.60 | 7322 | (0000 29 NOV 86) |
| U | -10.80 | 10.96 | -47.70 | 27.70 | 7322 | (0000 29 NOV 86) |
| V | 6.96 | 11.12 | -25.20 | 49.70 | 7322 | (0000 29 NOV 86) |
| T | 0.12 | 0.06 | -0.01 | 0.23 | 7322 | (0000 29 NOV 86) |

(835 M) SPEED BRIDGED LINES:

3897 - 3915 (0600 9 JUL 86 - 0000 10 JUL 86)

(1585 M) SPEED BRIDGED LINES:

3989 - 3543 (1400 18 JUN 86 - 1500 24 JUN 86)

PRESSURE OFFSCALE, GAPS IN LINES:

8976 - 9044 (0000 6 FEB 87 - 2000 8 FEB 87)

9773 - 9806 (0500 11 MAR 87 - 1400 12 MAR 87)

(3325 M) RECORD TERMINATED EARLY, DATA OF EXTREMELY POOR QUALITY
AFTER 7 OCT 86.

(4305 M) BATTERY DEAD AT RECOVERY, RECORD TERMINATED EARLY.

(4925 M) BATTERY DEAD AT RECOVERY, RECORD TERMINATED EARLY.

MOORING 3. LLP FILTERED 6-HOURLY DATA

835 M AT MOORING 3. 0000 29 JAN 86 - 0600 9 APR 87. TAPE 7217/11.

| | MEAN | SD | MIN | MAX | LENGTH | ENDS AT |
|---|--------|--------|--------|---------|--------|-----------------|
| U | 5.05 | 16.40 | -39.23 | 43.19 | 1742 | (0600 9 APR 87) |
| V | 4.80 | 12.71 | -36.44 | 35.39 | 1742 | (0600 9 APR 87) |
| T | 2.27 | 0.17 | 1.73 | 2.66 | 1742 | (0600 9 APR 87) |
| P | 906.89 | 100.91 | 840.85 | 1433.45 | 1742 | (0600 9 APR 87) |
| S | 34.60 | 2.50 | 34.49 | 34.74 | 1742 | (0600 9 APR 87) |

1585M AT MOORING 3. 0600 29 JAN 86 - 1200 9 APR 87. TAPE 4579/5.

| | | | | | | |
|---|---------|-------|---------|---------|------|-----------------|
| U | -0.57 | 12.07 | -32.18 | 31.73 | 1742 | (1200 9 APR 87) |
| V | 4.58 | 10.06 | -25.94 | 29.16 | 1742 | (1200 9 APR 87) |
| T | 1.93 | 0.32 | 1.19 | 2.77 | 1742 | (1200 9 APR 87) |
| P | 1658.96 | 77.99 | 1605.00 | 2128.72 | 1708 | (1200 9 APR 87) |
| S | 34.74 | 3.75 | 34.68 | 34.87 | 1742 | (1200 9 APR 87) |

2355M AT MOORING 3. 0000 29 JAN 86 - 0600 9 APR 87. TAPE 4577/5.

| | | | | | | |
|---|---------|-------|---------|---------|------|-----------------|
| U | -4.03 | 10.64 | -36.21 | 27.20 | 1742 | (0600 9 APR 87) |
| V | 4.33 | 8.60 | -20.89 | 34.78 | 1742 | (0600 9 APR 87) |
| T | 1.25 | 0.24 | 0.70 | 1.96 | 1742 | (0600 9 APR 87) |
| P | 2442.12 | 88.16 | 2388.64 | 2924.23 | 1742 | (0600 9 APR 87) |
| S | 34.74 | 3.85 | 34.68 | 34.81 | 1738 | (0600 9 APR 87) |

3325M AT MOORING 3. 0000 29 JAN 86 - 1200 6 OCT 86. TAPE 501/61.

| | | | | | | |
|---|---------|-------|---------|---------|------|-----------------|
| U | -6.53 | 8.51 | -38.91 | 14.58 | 1003 | (1200 6 OCT 86) |
| V | 3.64 | 7.65 | -18.22 | 22.90 | 1003 | (1200 6 OCT 86) |
| T | 0.47 | 0.12 | 0.20 | 0.77 | 1003 | (1200 6 OCT 86) |
| P | 3412.82 | 45.86 | 3375.40 | 3717.32 | 1003 | (1200 6 OCT 86) |

4305M AT MOORING 3. 0000 29 JAN 86 - 0600 20 JUL 86. TAPE 1536/25.

| | | | | | | |
|---|-------|-------|--------|-------|-----|------------------|
| U | -7.98 | 11.87 | -34.67 | 13.31 | 321 | (0000 19 APR 86) |
| V | 4.49 | 8.28 | -12.98 | 34.48 | 321 | (0000 19 APR 86) |
| T | 0.16 | 0.04 | 0.03 | 0.23 | 690 | (0600 20 JUL 86) |

(Speed, u, and v are given in cm/sec, Temperature in °C, Pressure in DB, and Corrected Salinity in ppt.)

MOORING 3. LLP FILTERED 6-HOURLY DATA

4925M AT MOORING 3. 0000 29 JAN 86 - 1800 27 NOV 86. TAPE 1538/34.

| | MEAN | SD | MIN | MAX | LENGTH | ENDS AT |
|---|--------|-------|--------|-------|--------|------------------|
| U | -10.79 | 10.57 | -40.30 | 21.06 | 1212 | (1800 27 NOV 86) |
| V | 6.94 | 10.65 | -23.78 | 43.00 | 1212 | (1800 27 NOV 86) |
| T | 0.12 | 0.05 | 0.01 | 0.22 | 1212 | (1800 27 NOV 86) |

(835 M) BRIDGES IN UNFILTERED SPEED RECORD

(1585 M) BRIDGES IN UNFILTERED SPEED RECORD
PRESSURE OFFSCALE, GAPS IN LLP RECORD, LINES:
1488 - 1507 (0000 5 FEB 87 - 1800 9 FEB 87)
1621 - 1634 (0600 10 MAR 87 - 1200 13 MAR 87)

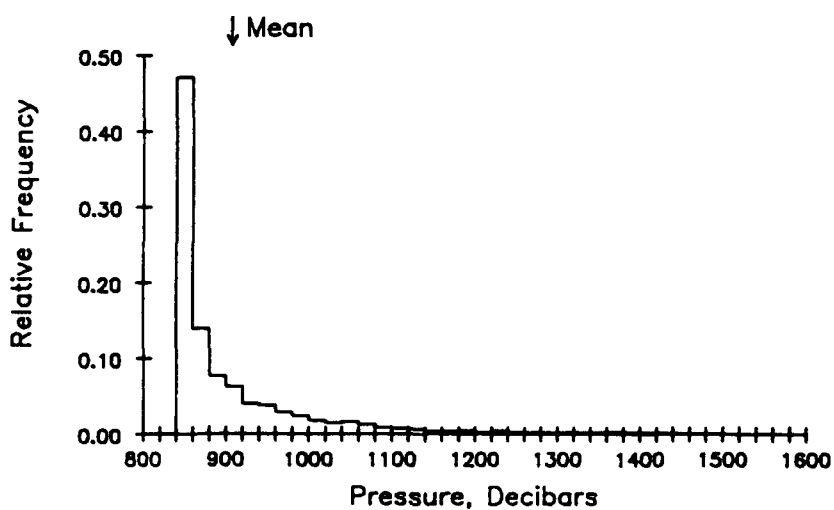
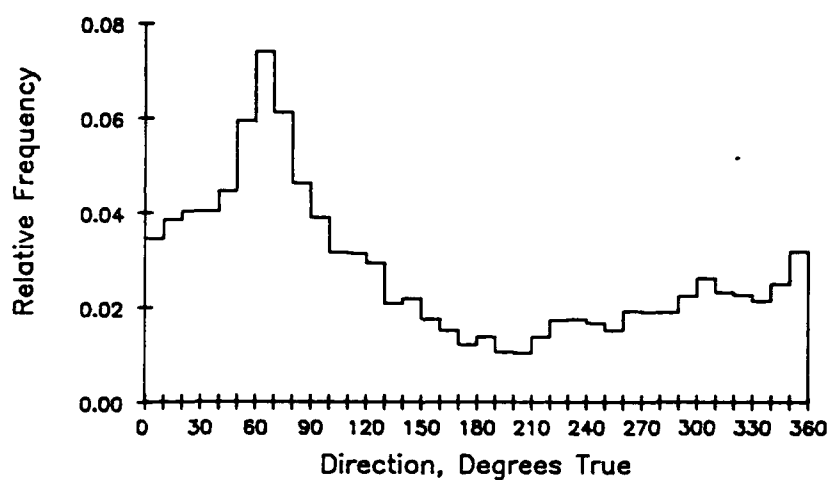
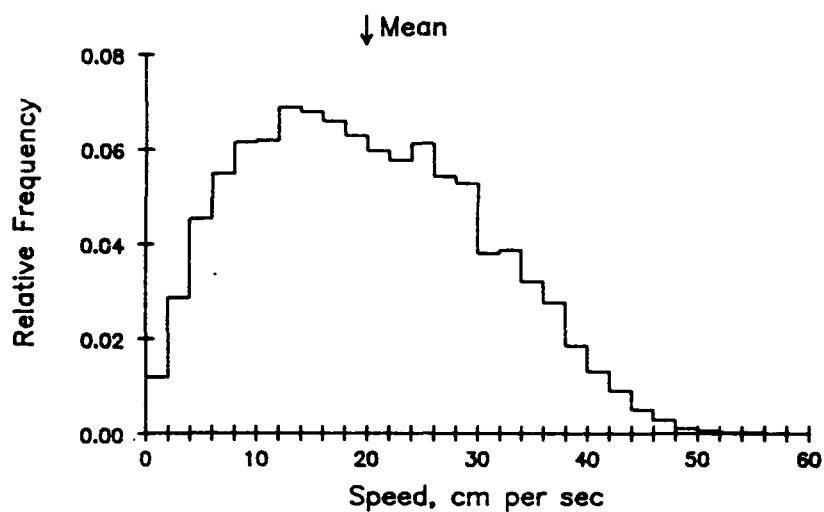
(2355 M) GAPS IN SALINITY RECORD, BAD VALUES REMOVED

(3325 M) RECORD TERMINATED EARLY

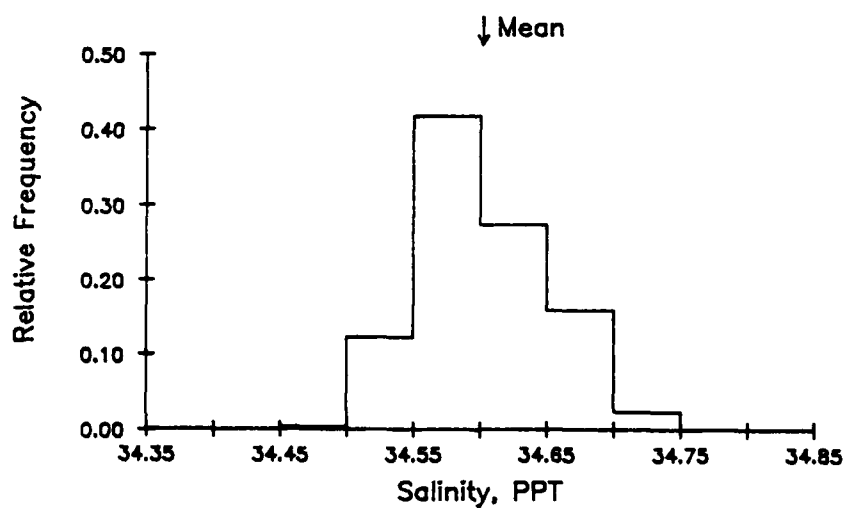
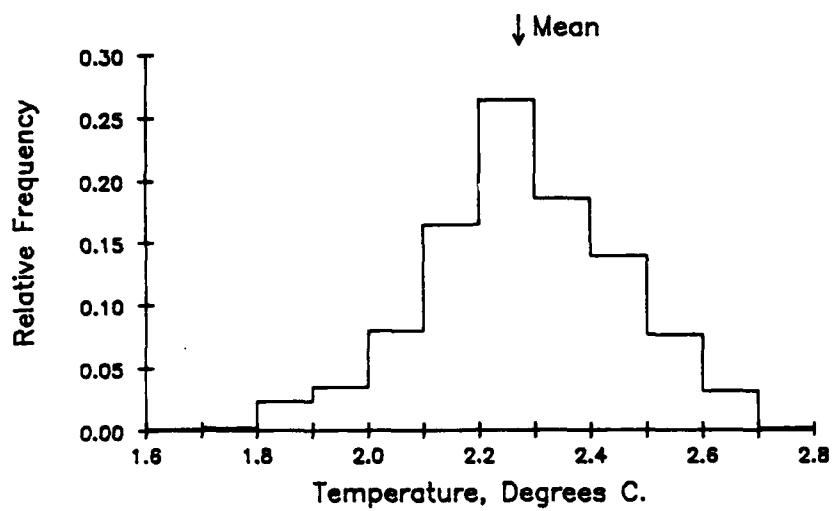
(4305 M) RECORD TERMINATED EARLY, BATTERY DEAD AT RECOVERY

(4925 M) RECORD TERMINATED EARLY, BATTERY DEAD AT RECOVERY

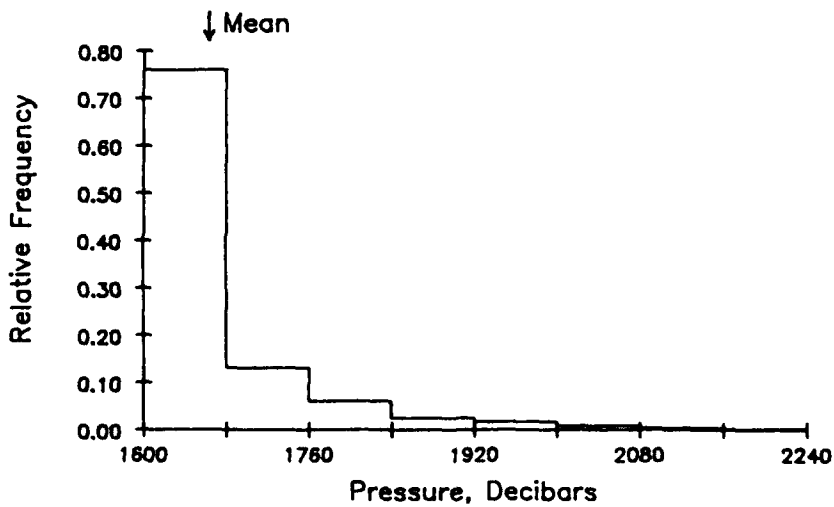
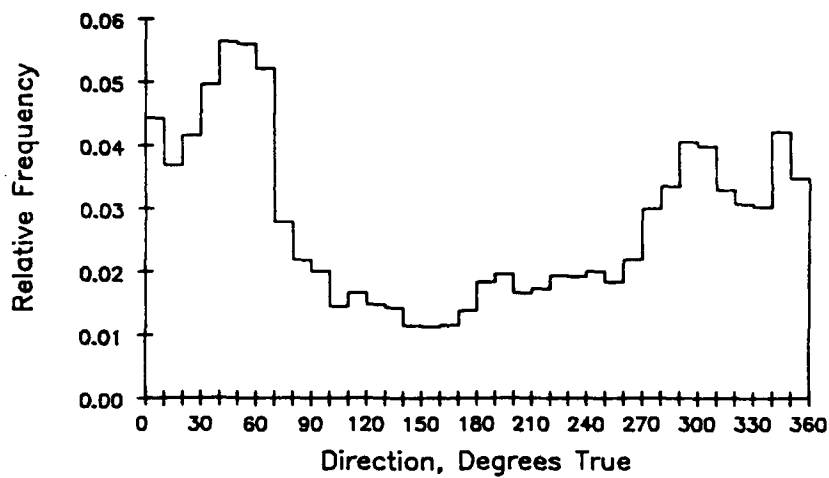
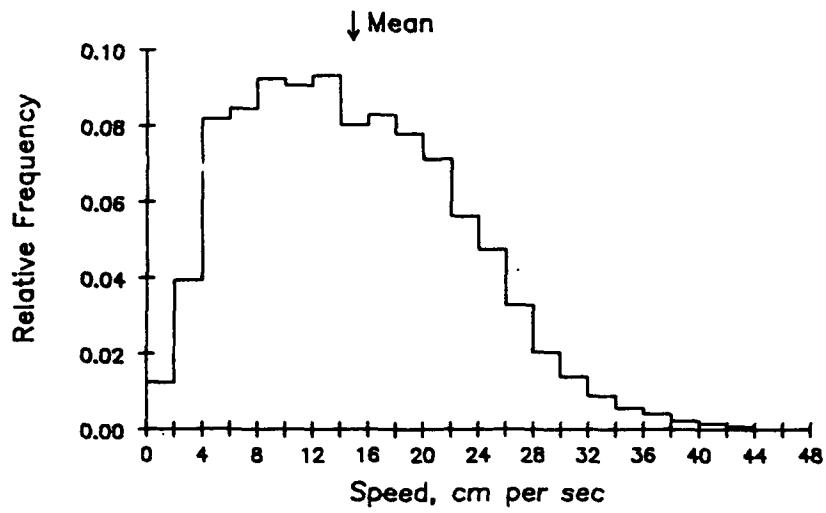
835 METERS AT MOORING 3. TAPE 7217/11.



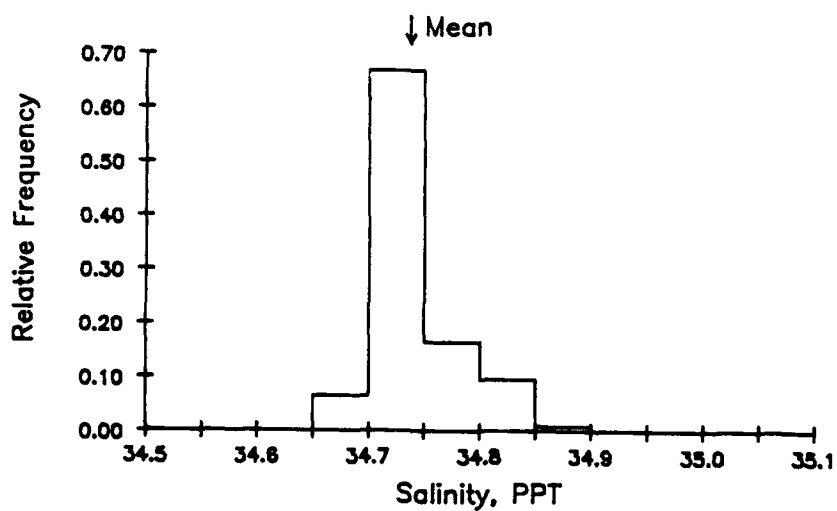
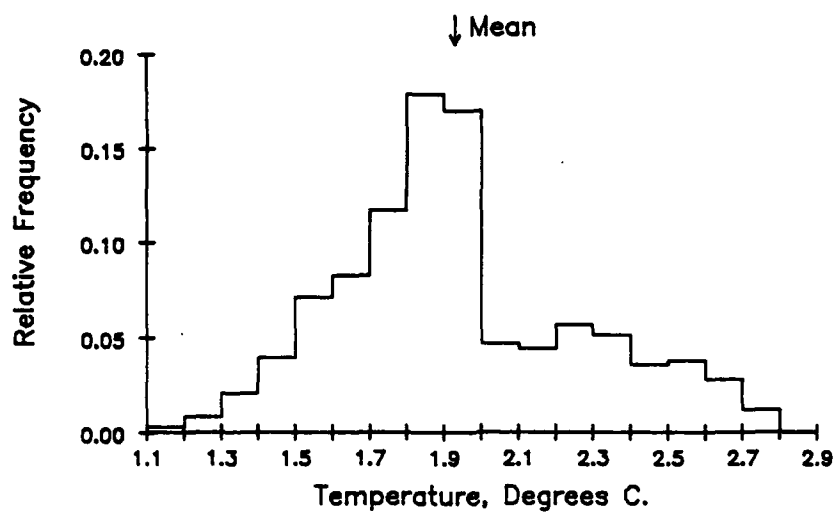
835 METERS AT MOORING 3. TAPE 7217/11.



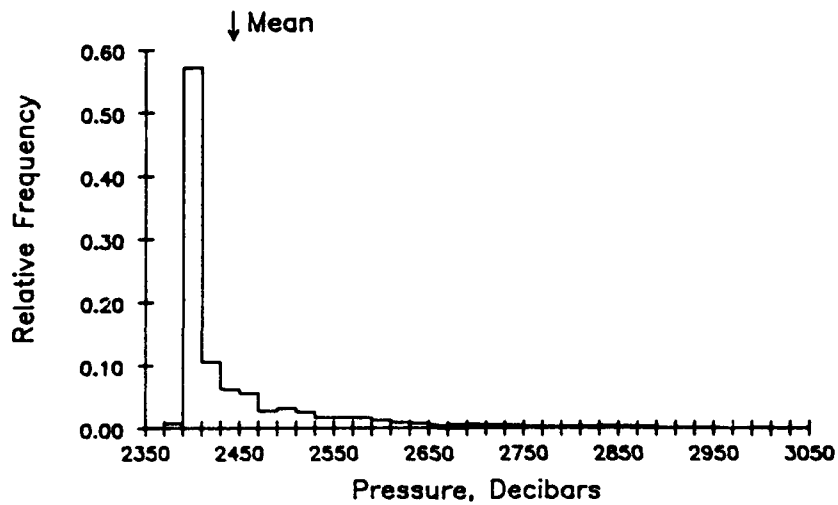
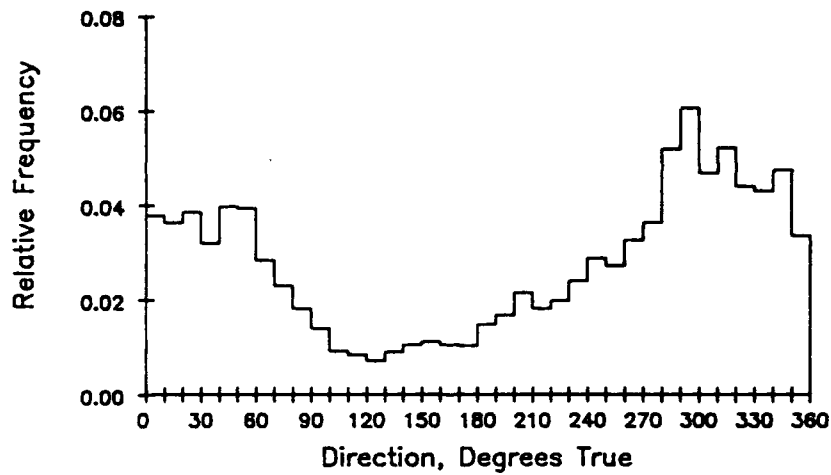
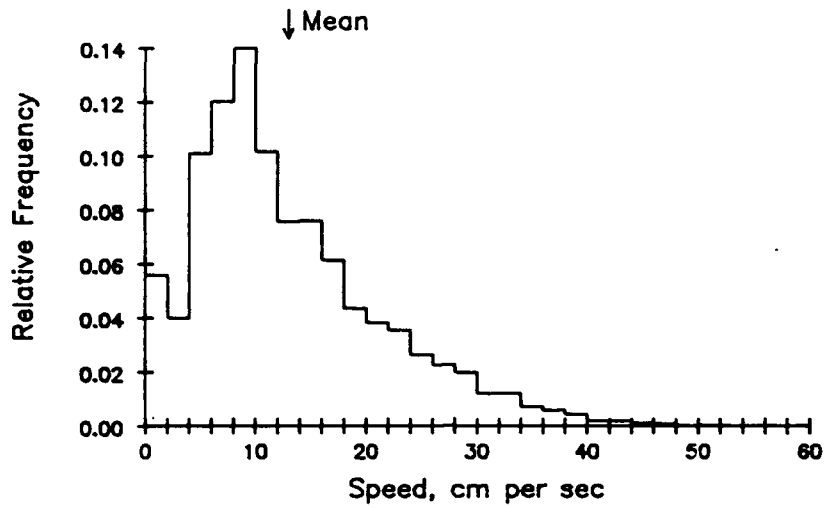
1585 METERS AT MOORING 3. TAPE 4579/5.



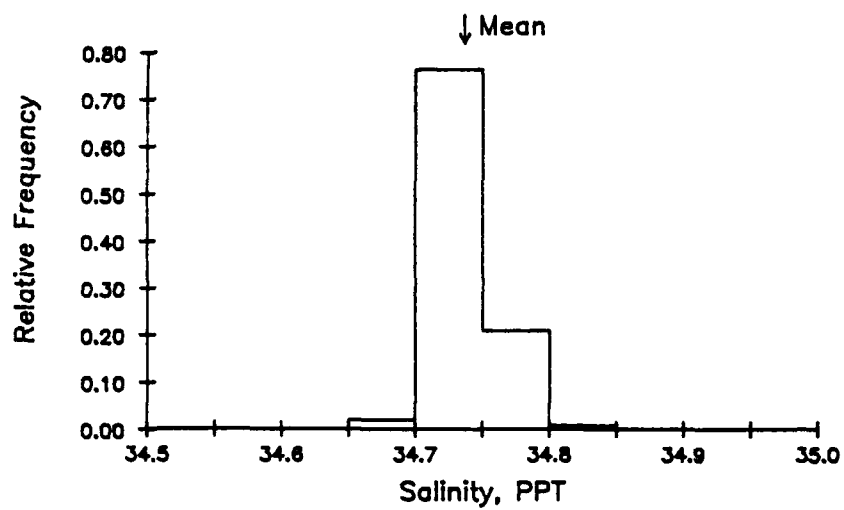
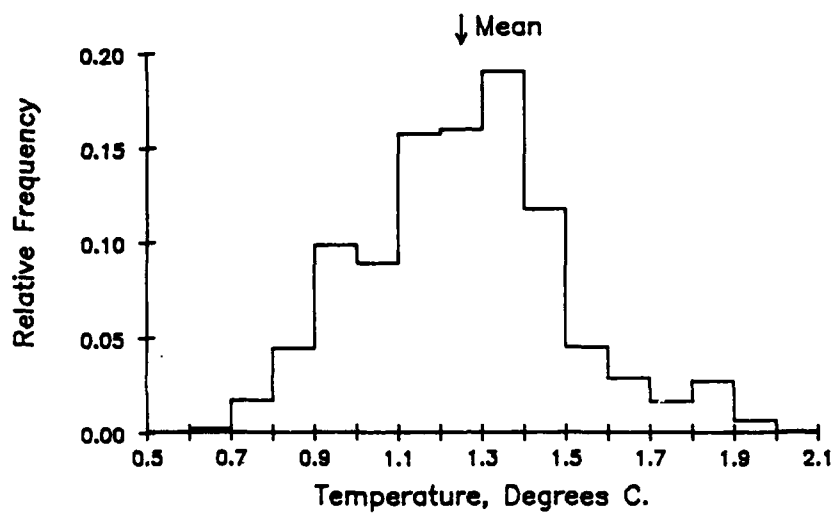
1585 METERS AT MOORING 3. TAPE 4579/5.



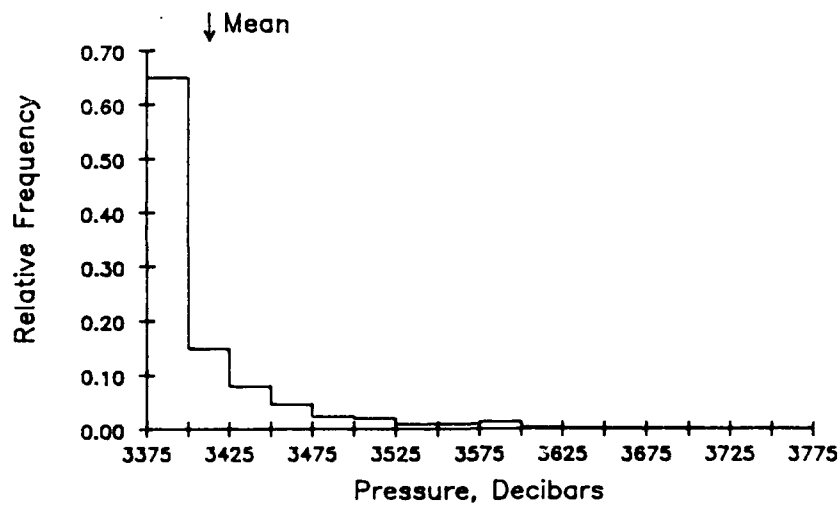
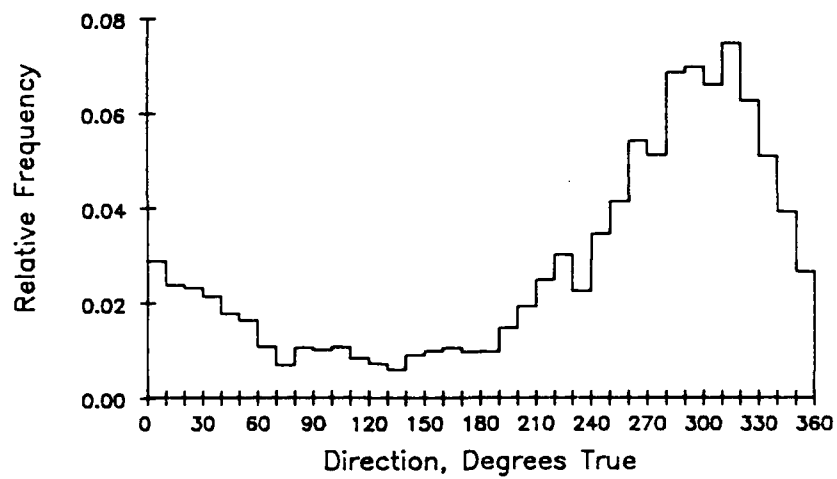
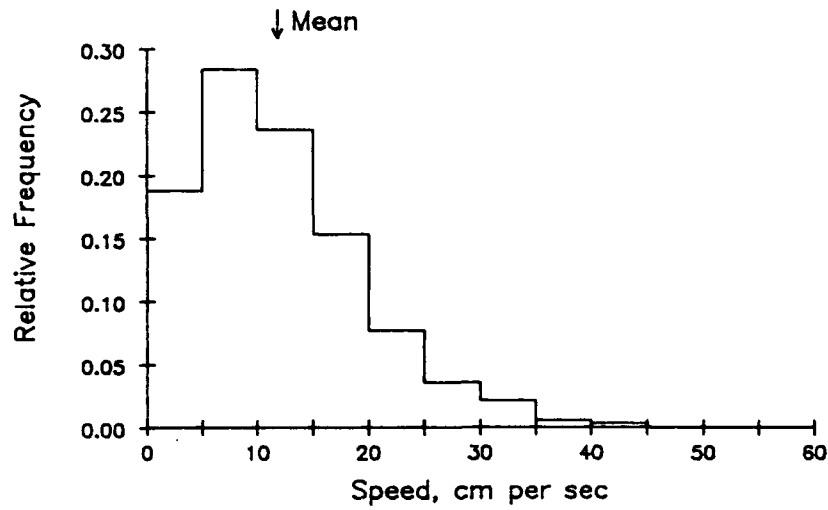
2355 METERS AT MOORING 3. TAPE 4577/5.



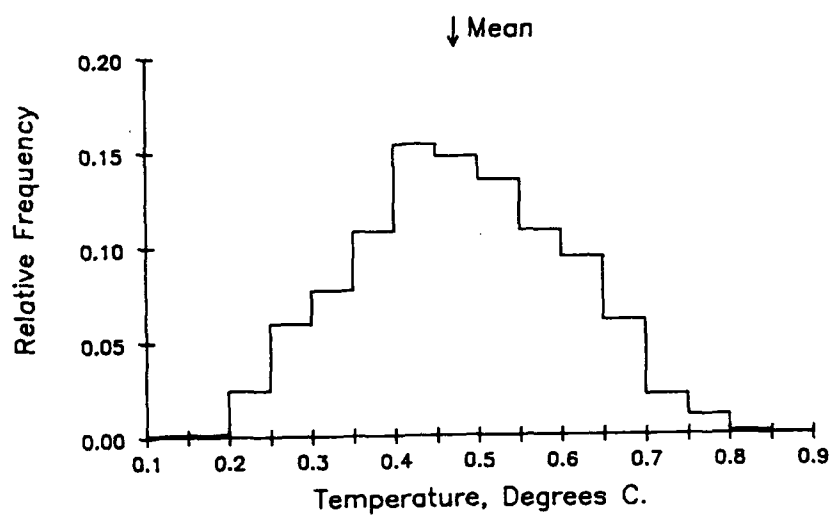
2355 METERS AT MOORING 3. TAPE 4577/5.



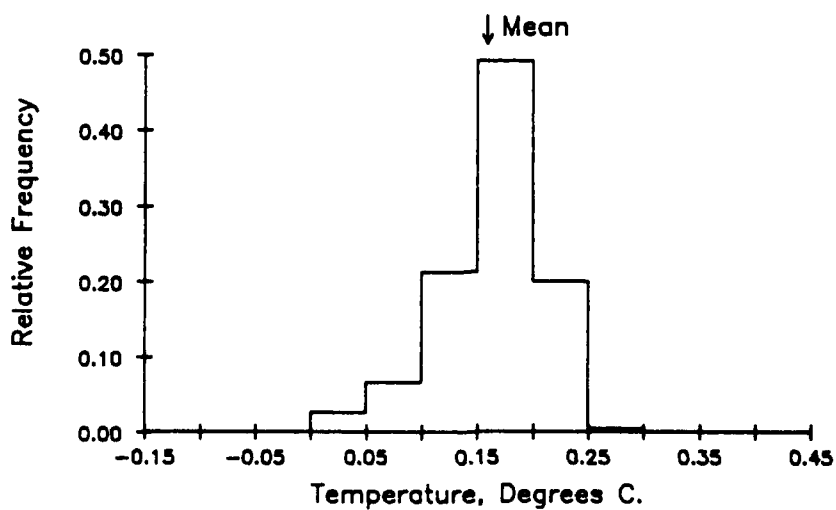
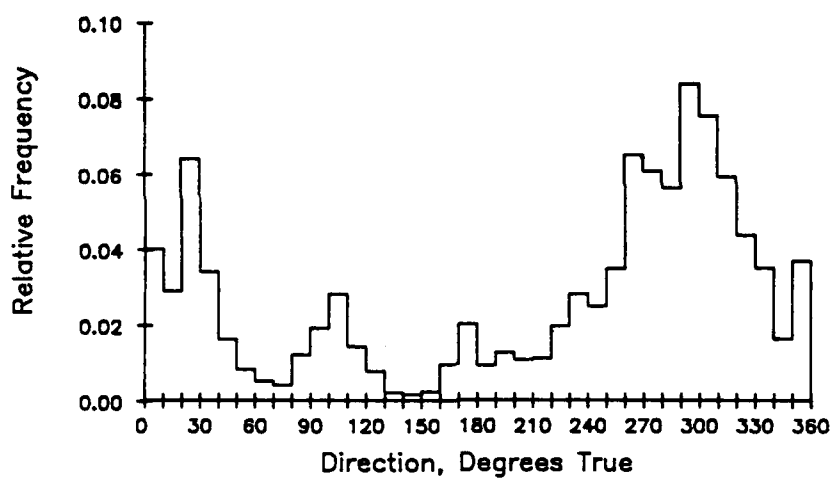
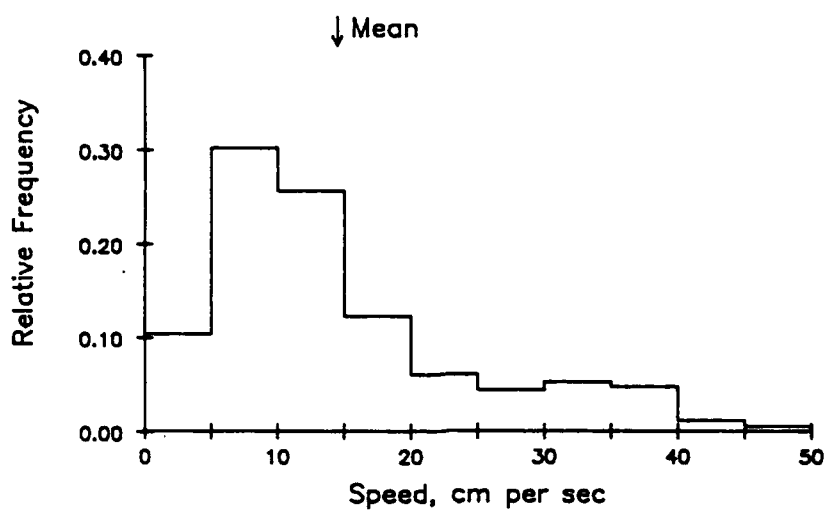
3325 METERS AT MOORING 3. TAPE 501/61.



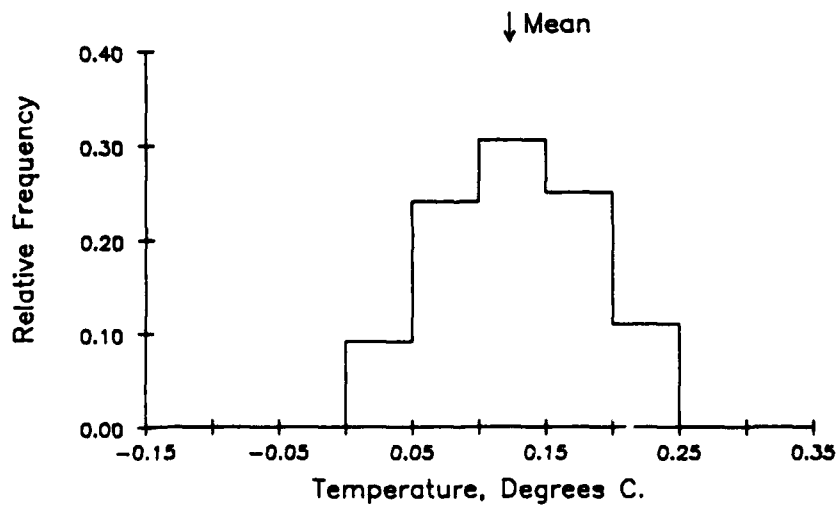
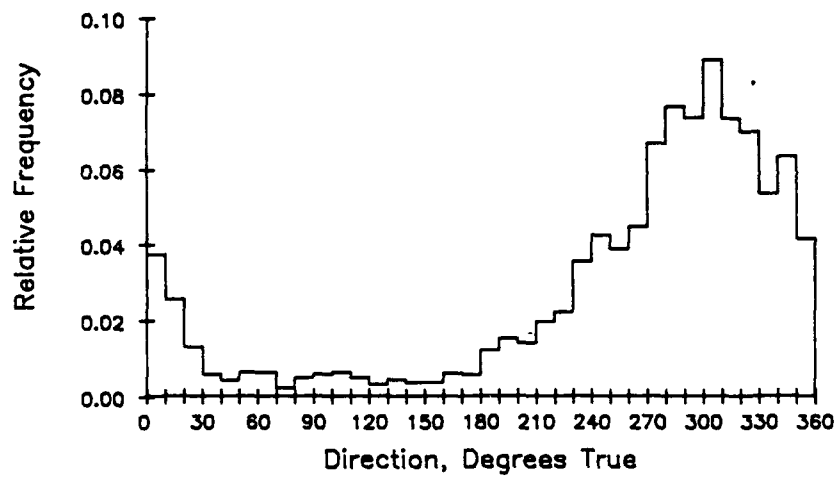
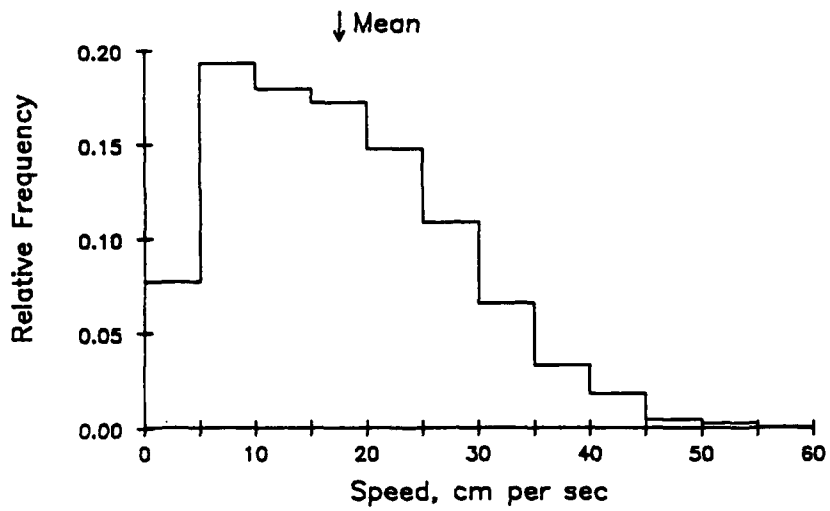
3325 METERS AT MOORING 3. TAPE 501/61.



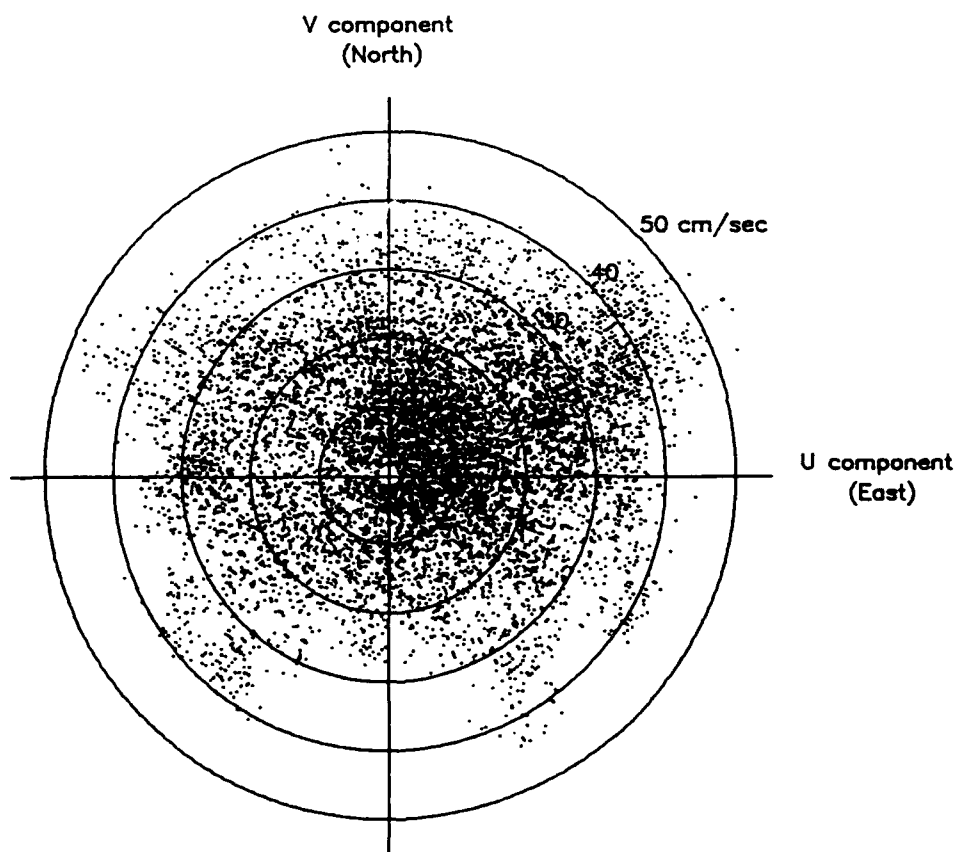
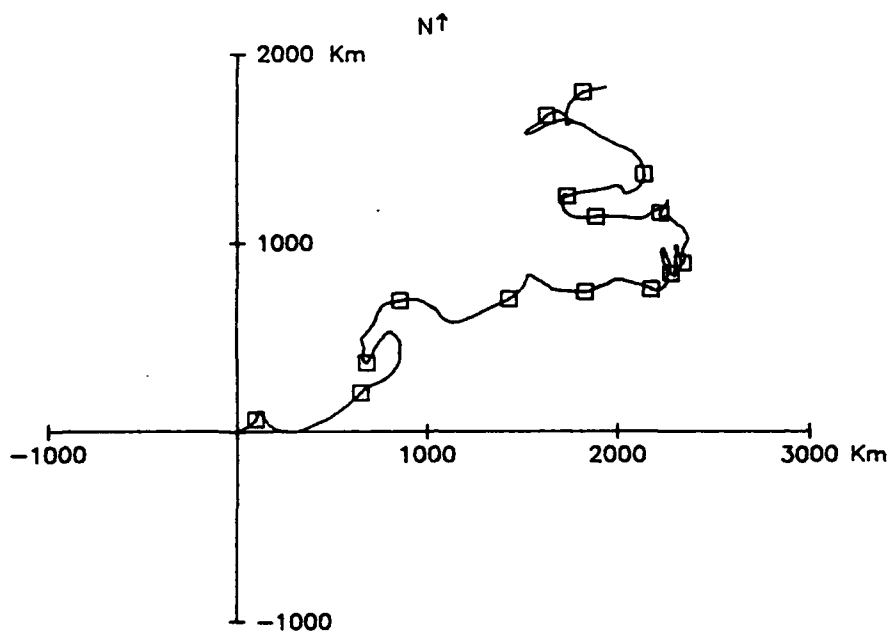
4305 METERS AT MOORING 3. TAPE 1536/25.



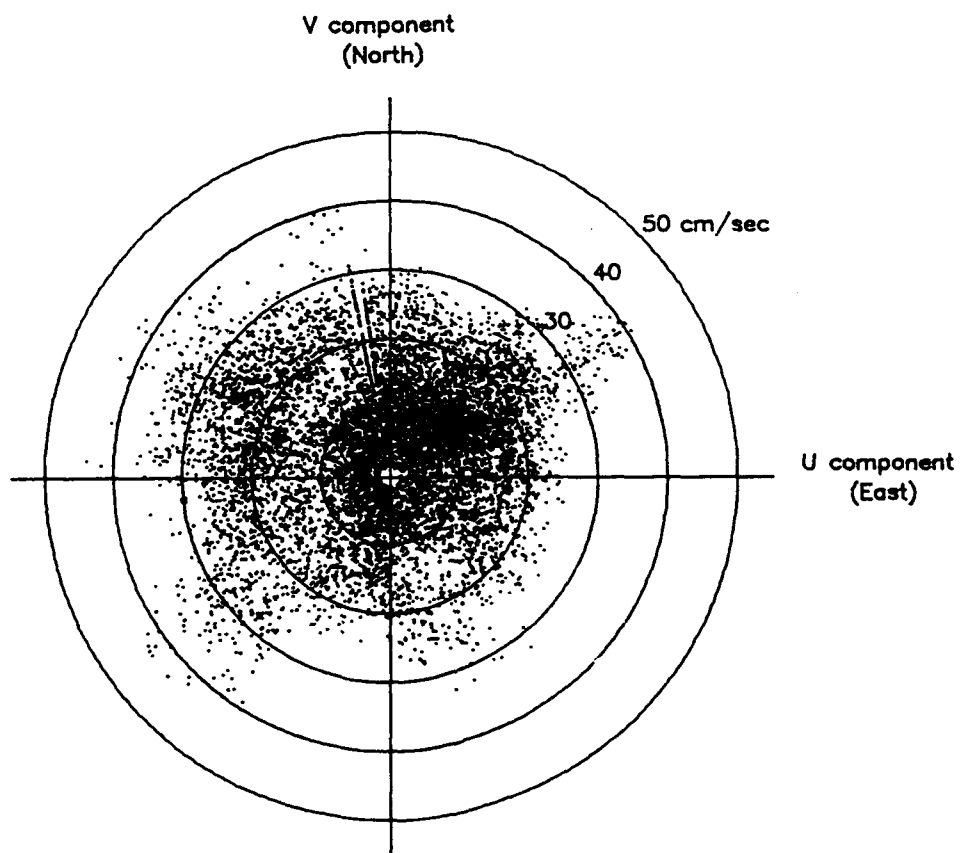
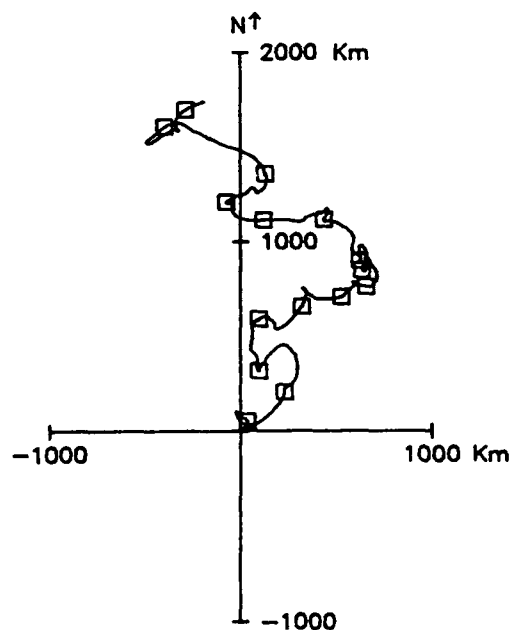
4925 METERS AT MOORING 3. TAPE 1538/34.



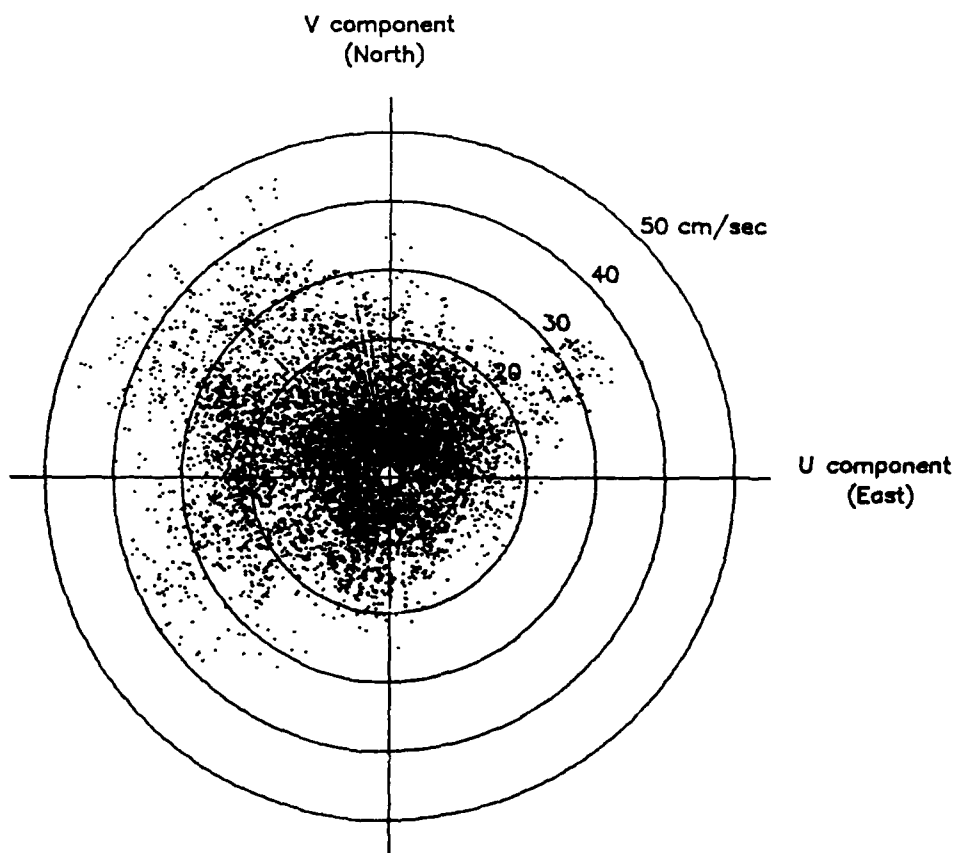
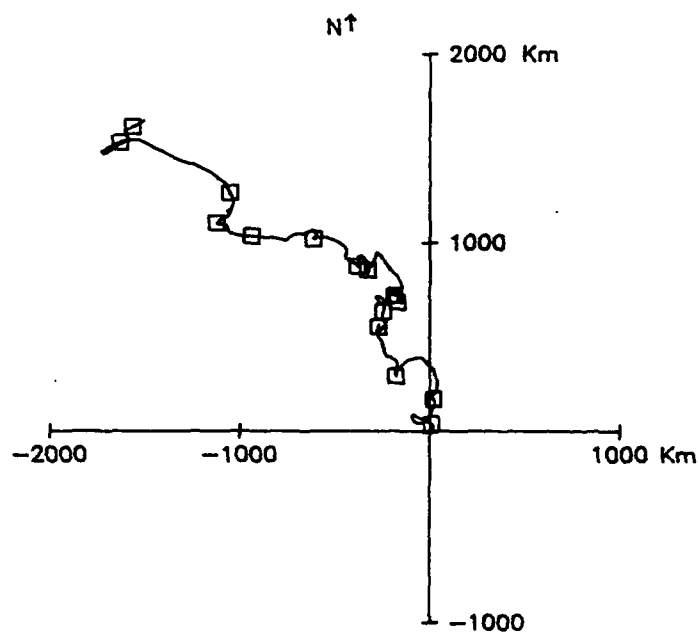
835M AT MOORING 3. 27 JAN 86 - 10 APR 87. TAPE 7217/11.



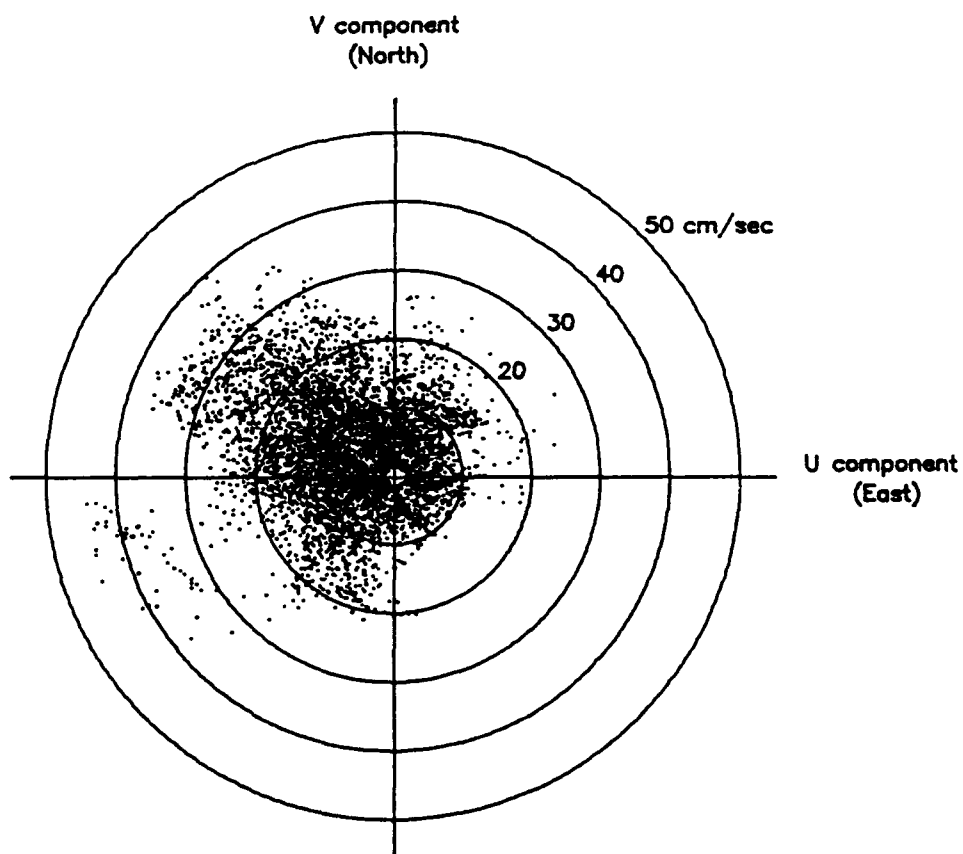
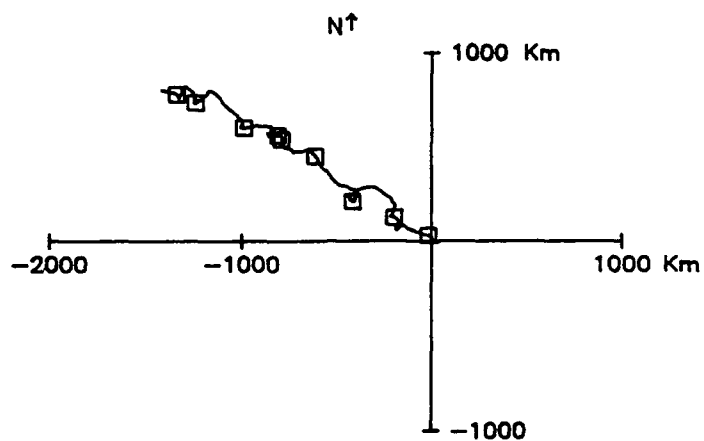
1585M AT MOORING 3. 28 JAN 86 - 10 APR 87. TAPE 4579/5.



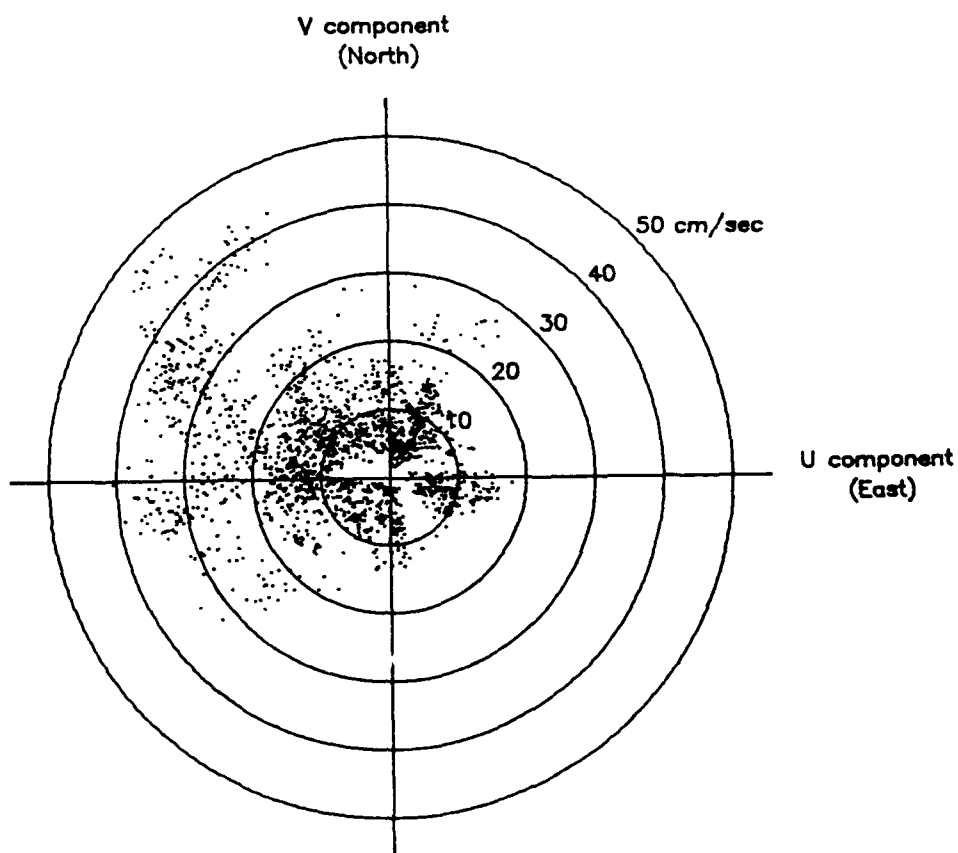
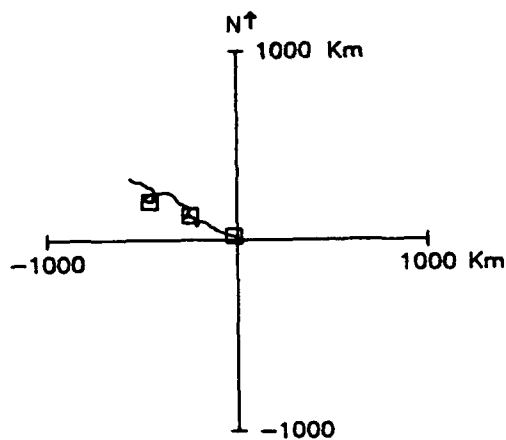
2355M AT MOORING 3. 27 JAN 86 - 10 APR 87. TAPE 4577/5.



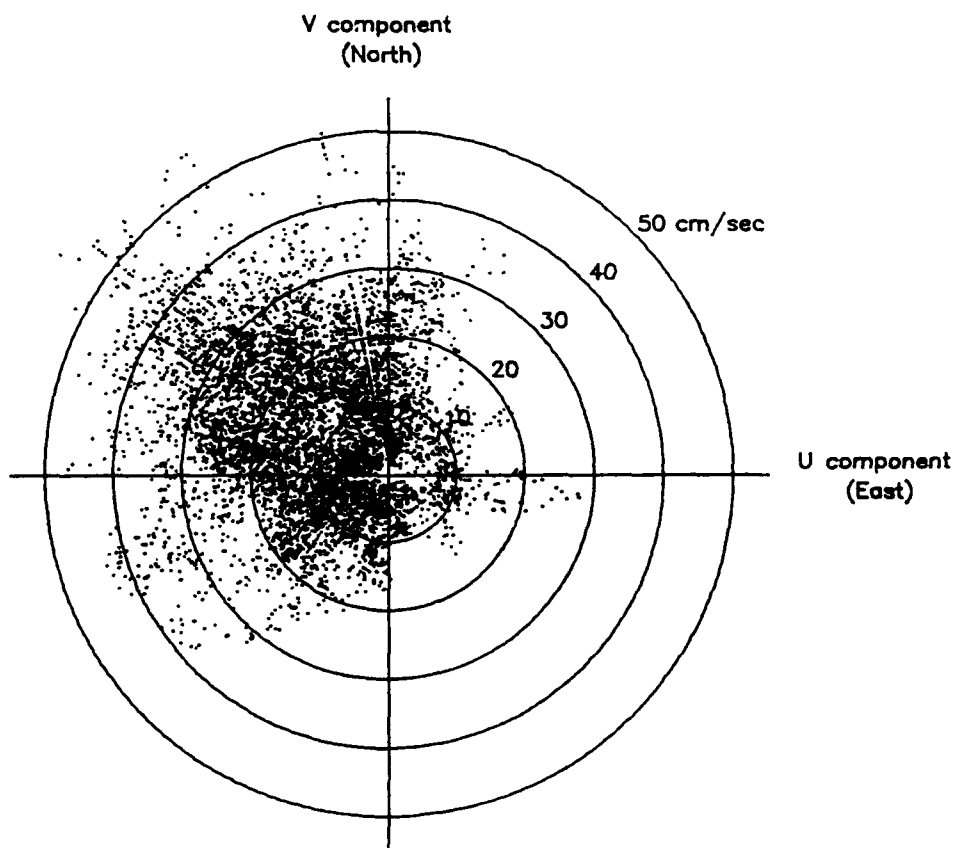
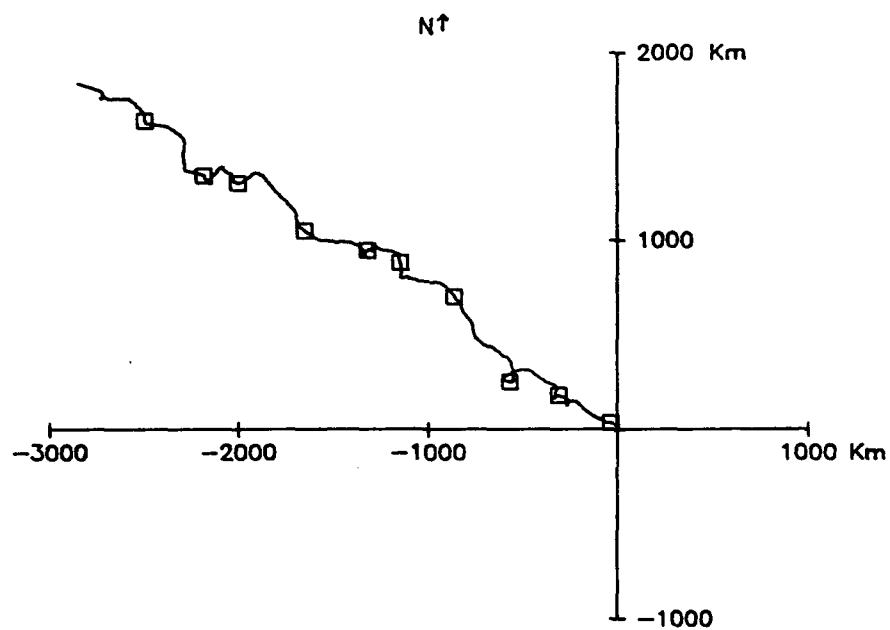
3325M AT MOORING 3. 28 JAN 86 - 7 OCT 87. TAPE 501/61.



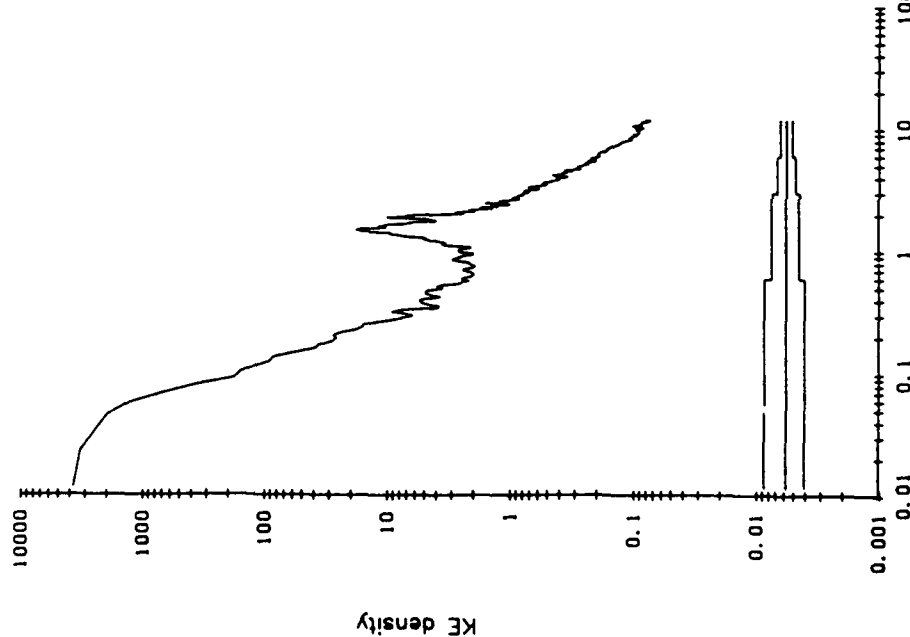
4305M AT MOORING 3. 27 JAN 86 - 20 APR 86. TAPE 1536/25.



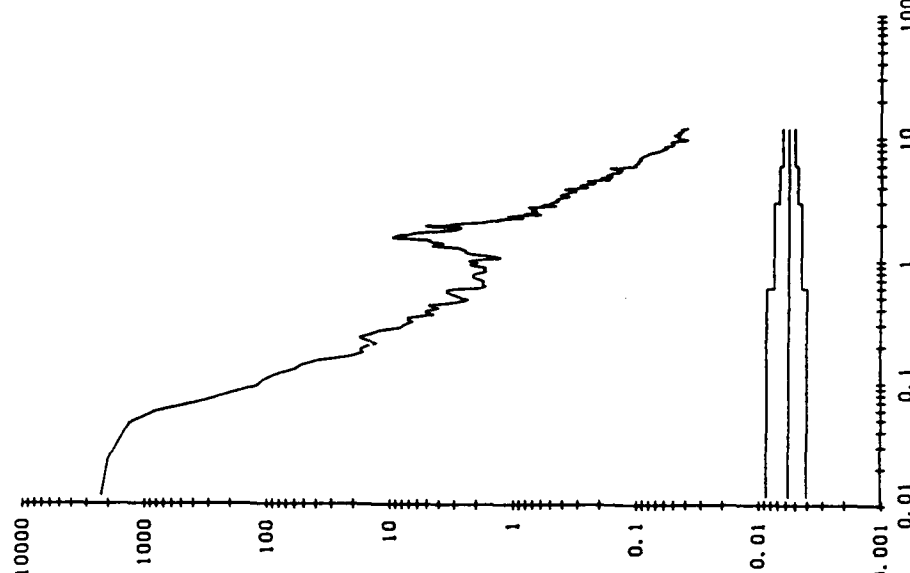
4925M AT MOORING 3. 27 JAN 86 - 29 NOV 86. TAPE 1538/34.



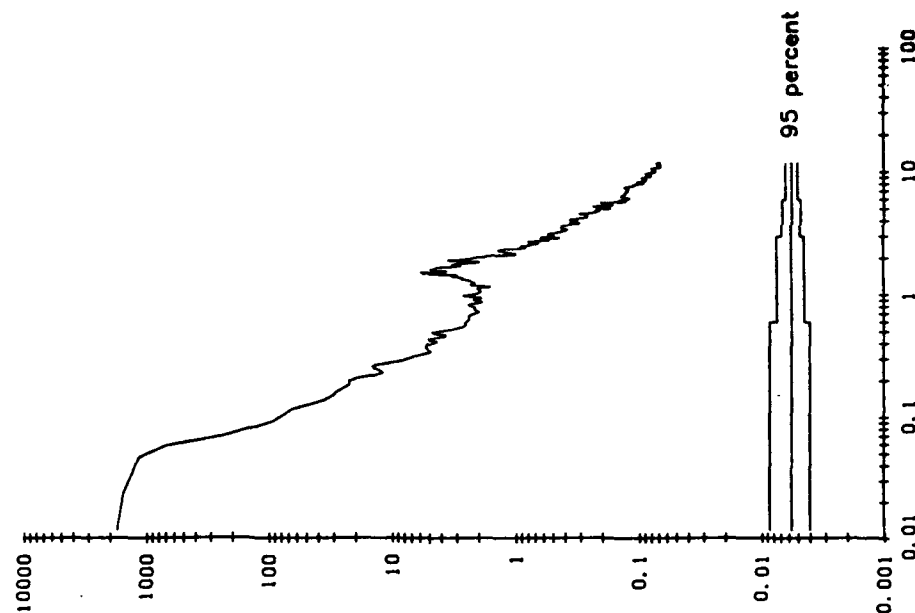
Unfiltered current. 835 m at Mooring 3.
Both components



Unfiltered current. 1585 m at Mooring 3.
Both components

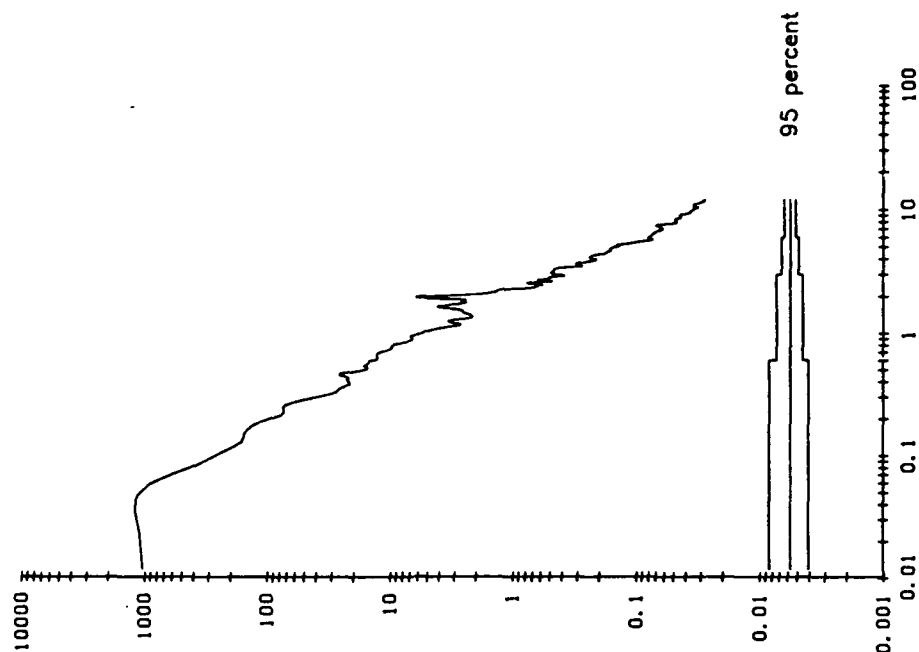


Unfiltered data. 2355 m at Mooring 3.
Both components

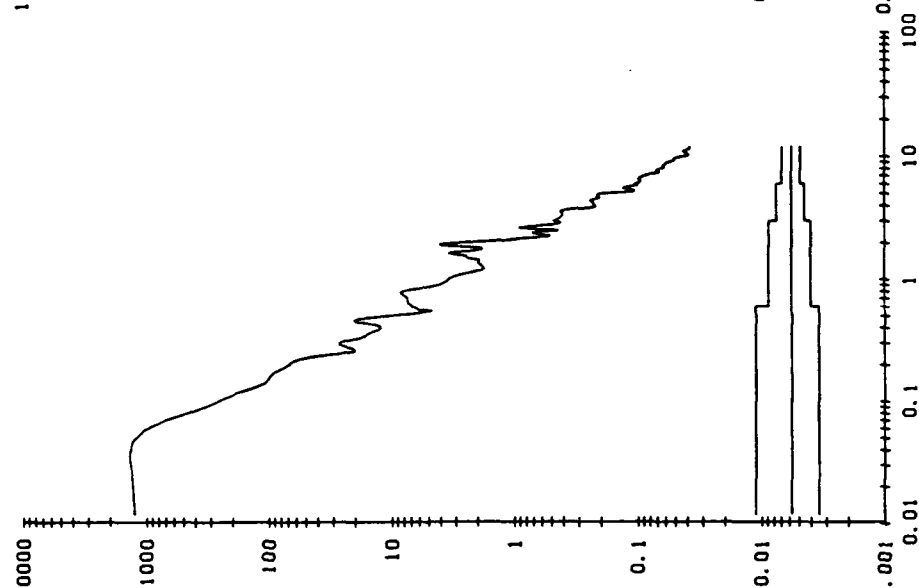


frequency, cycles per day

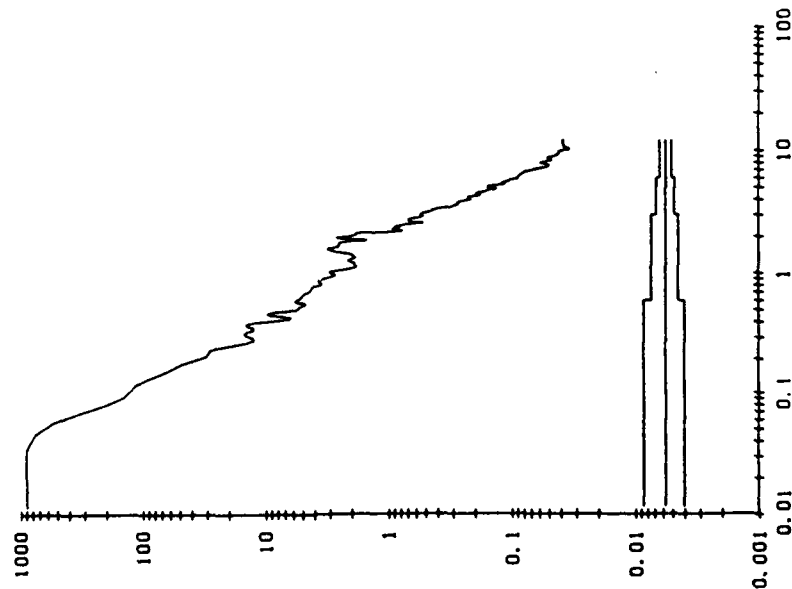
Unfiltered current. 4925 m at Mooring 3.
Both components



Unfiltered current. 4305 m at Mooring 3.
Both components

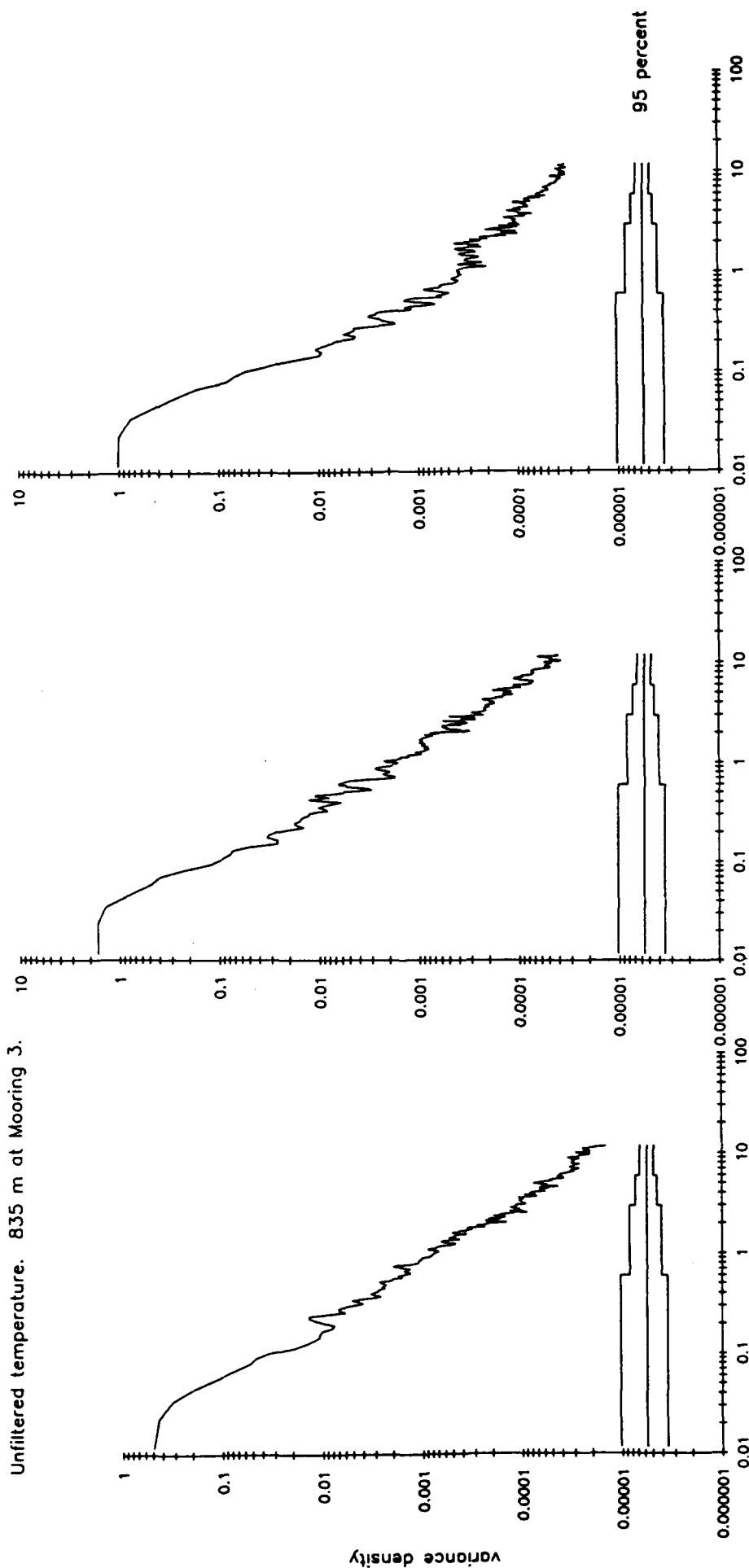


Unfiltered current. 3325 m at Mooring 3.
Both components

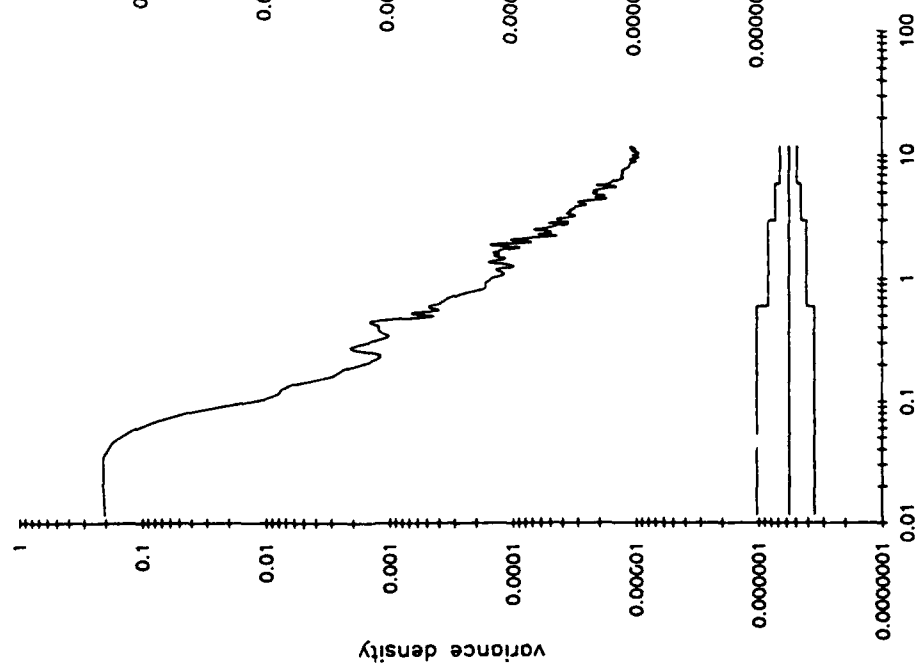


frequency, cycles per day

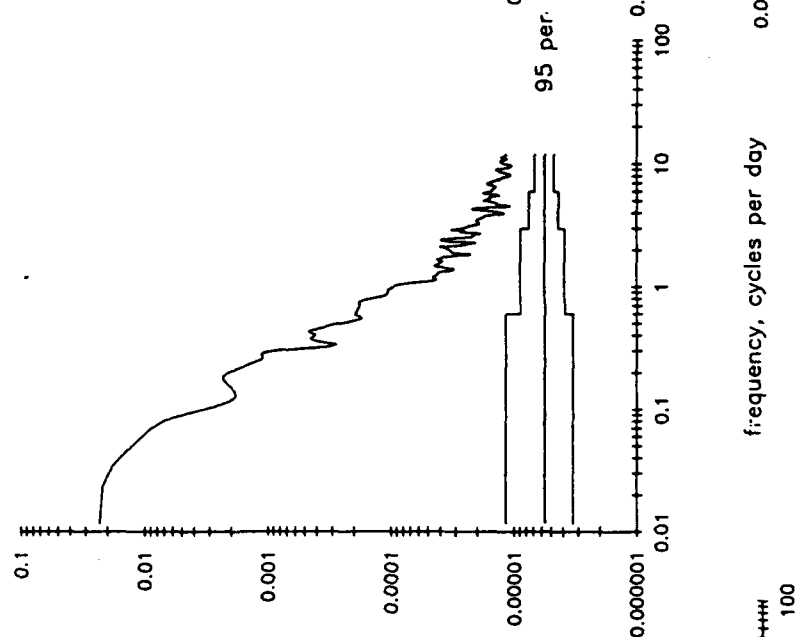
Unfiltered temperature. 835 m at Mooring 3. Unfiltered temperature. 1585 m at Mooring 3. Unfiltered temperature. 2355 m at Mooring 3.



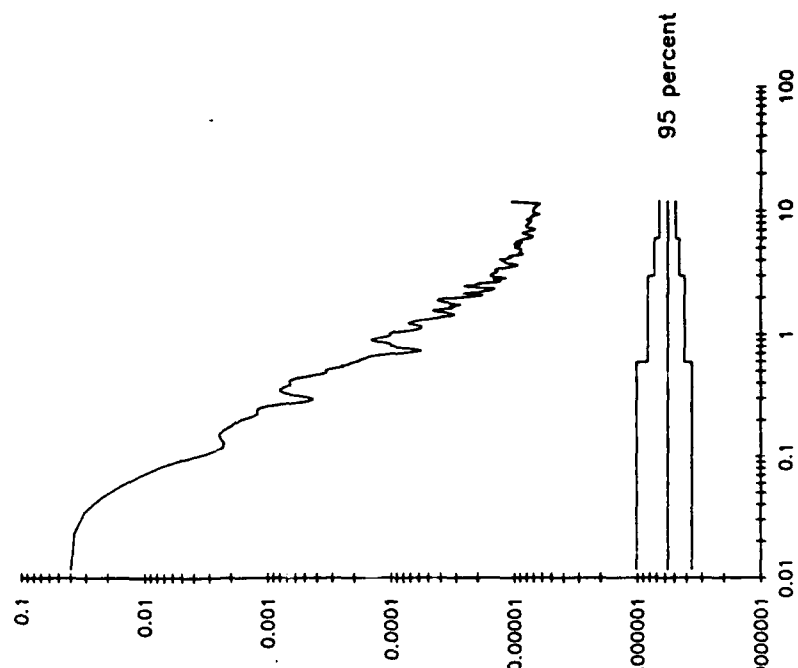
Unfiltered temperature. 3325 m at Mooring 3.

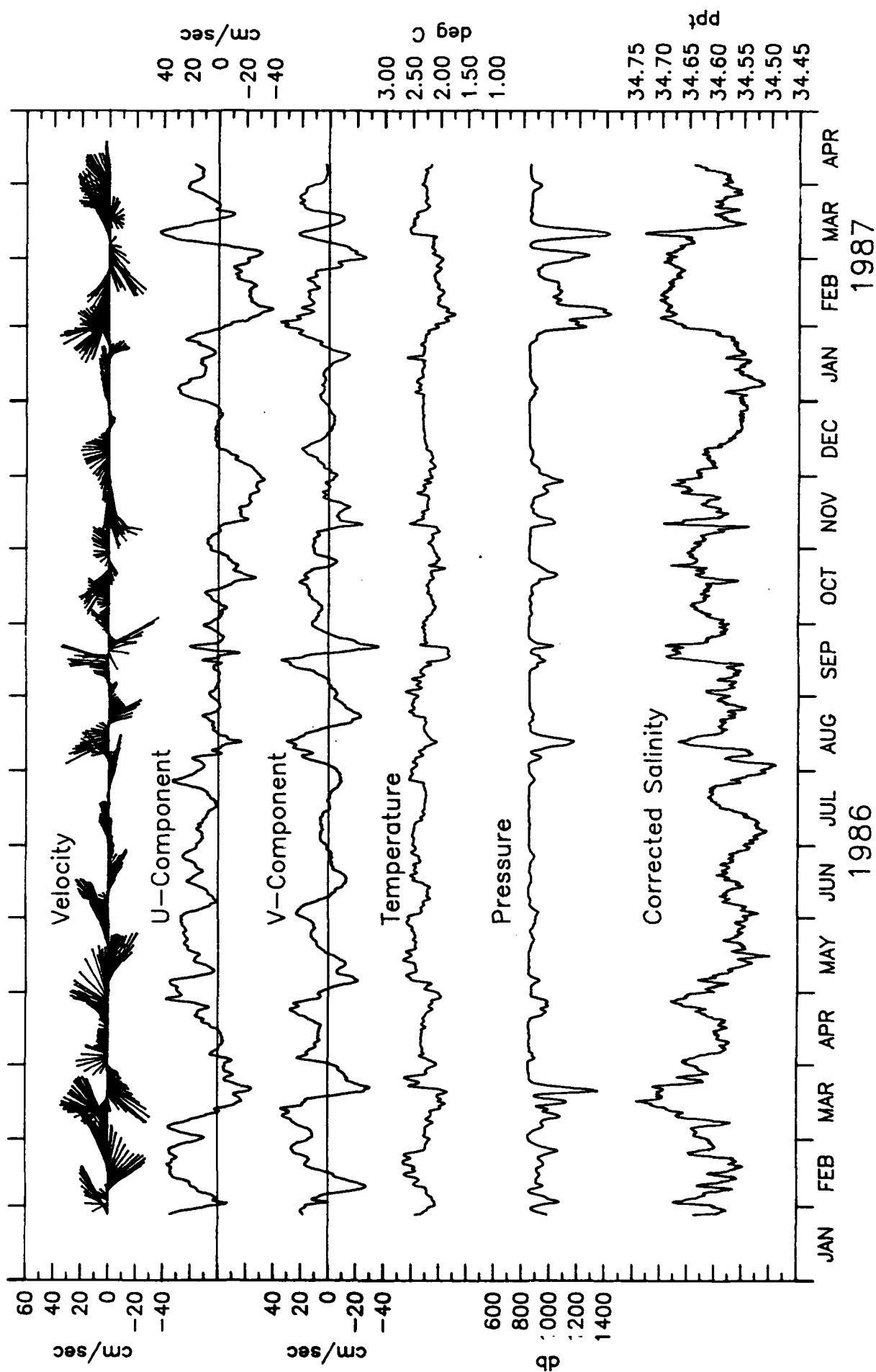


Unfiltered temperature. 4305 m at Mooring 3

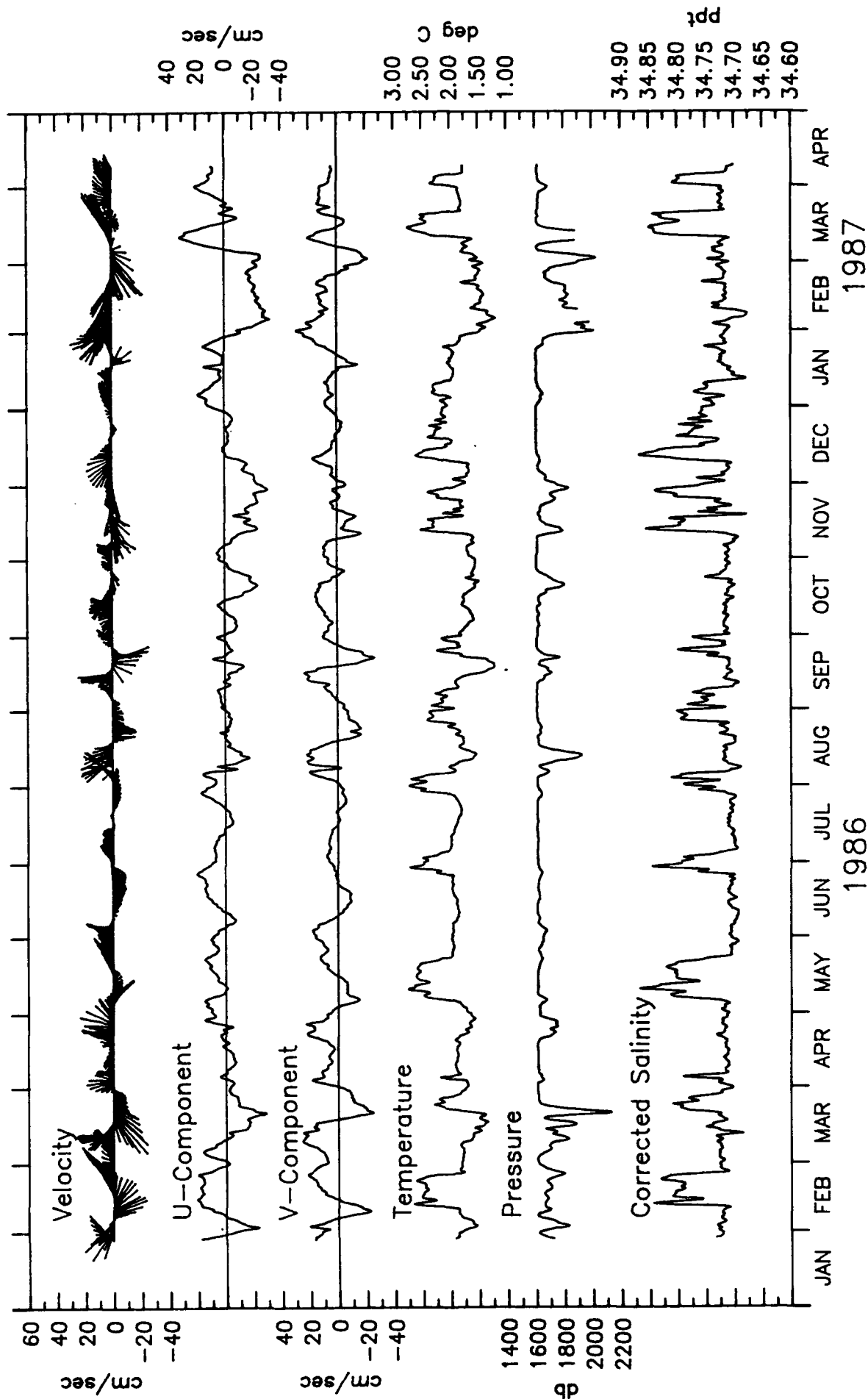


Unfiltered temperature. 4925 m at Mooring 3.

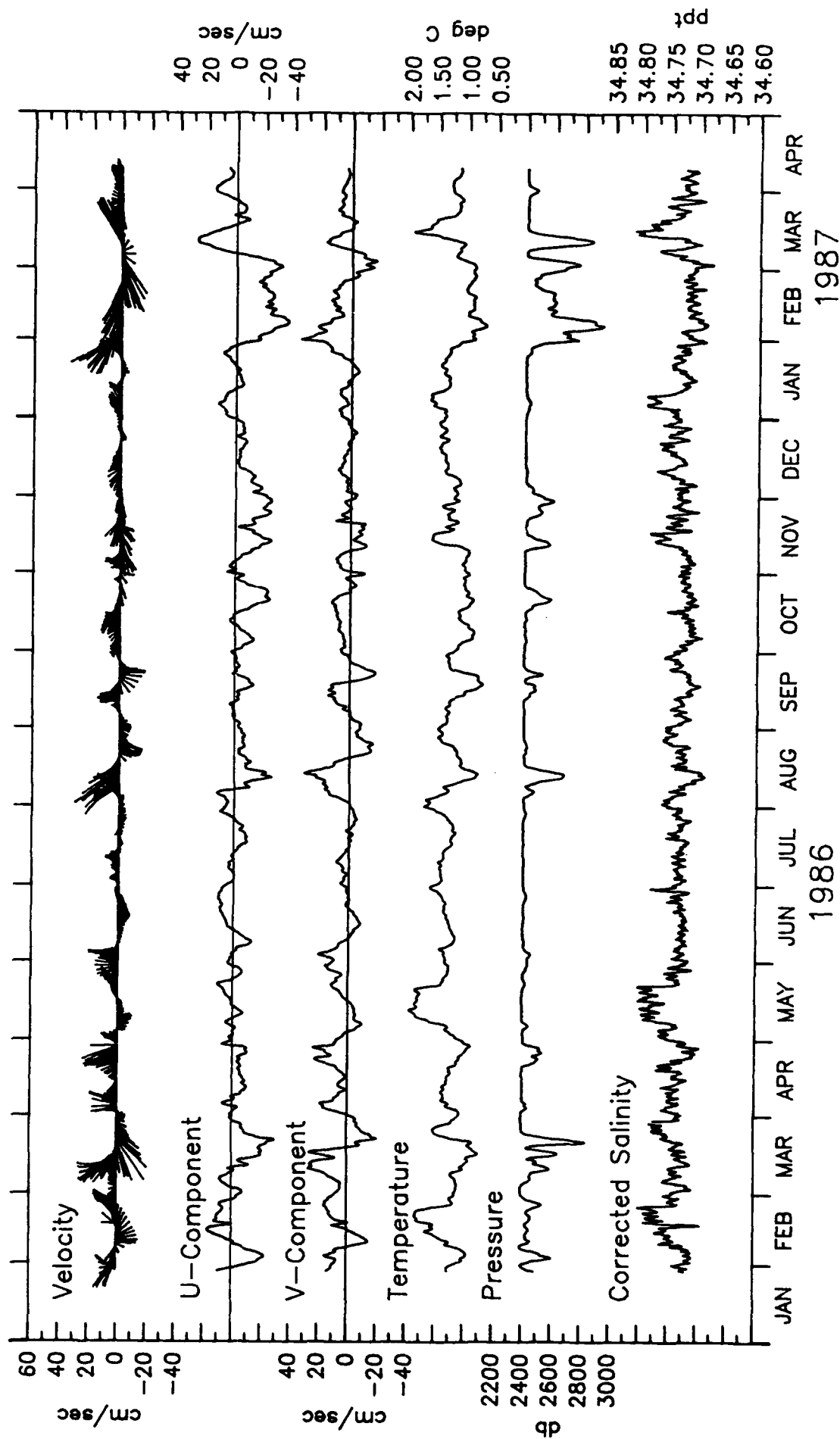




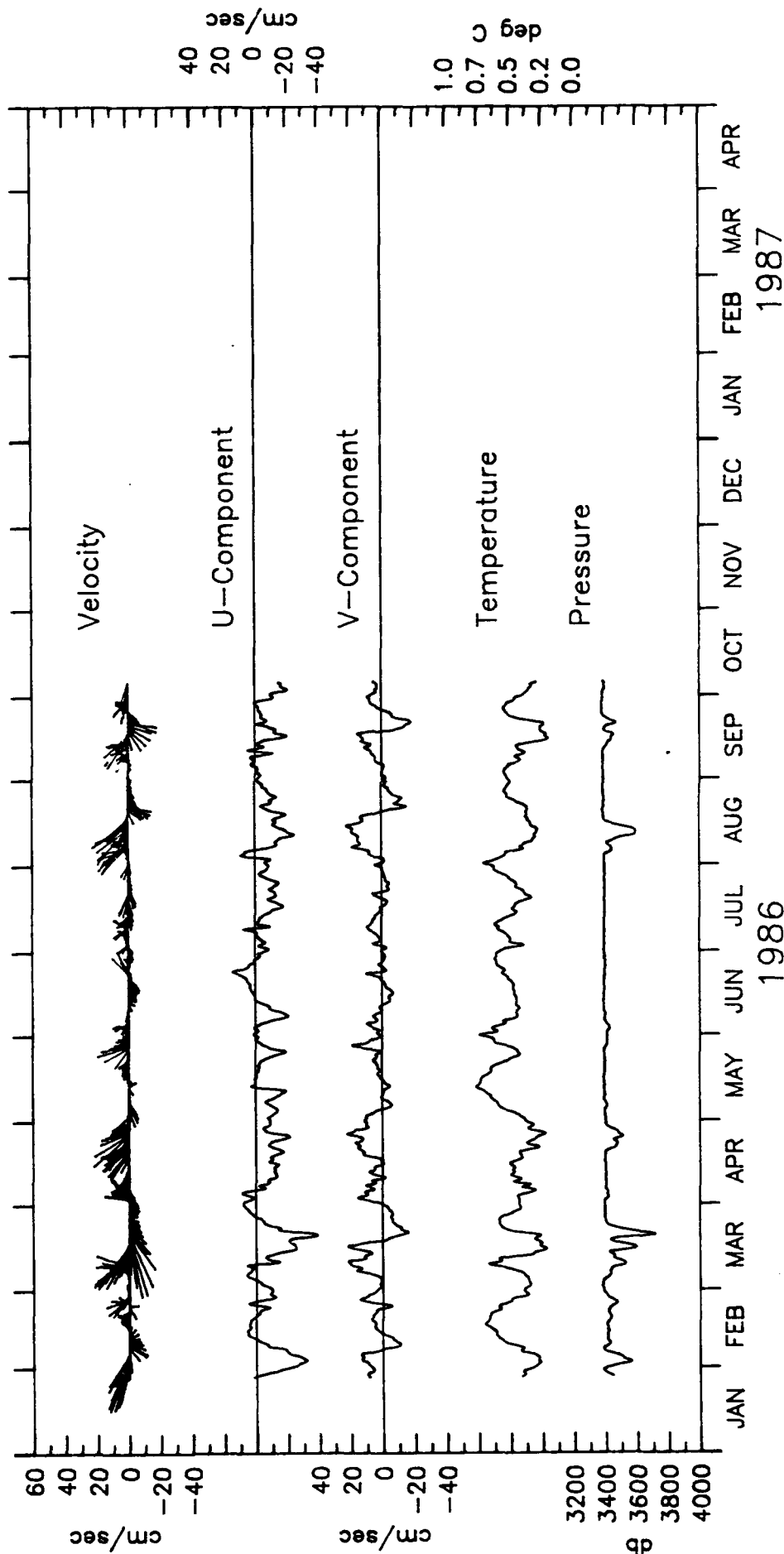
835 M AT MOORING 3.



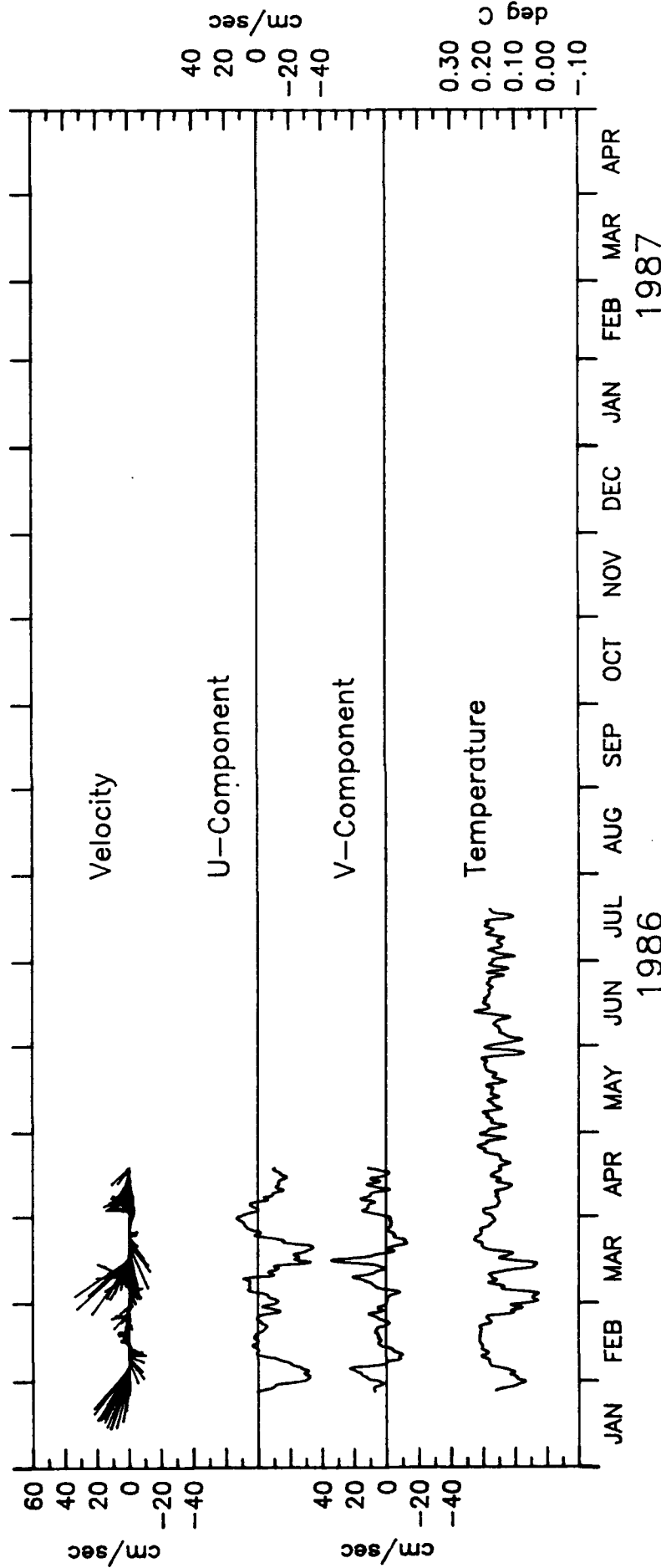
1585 M AT MOORING 3.



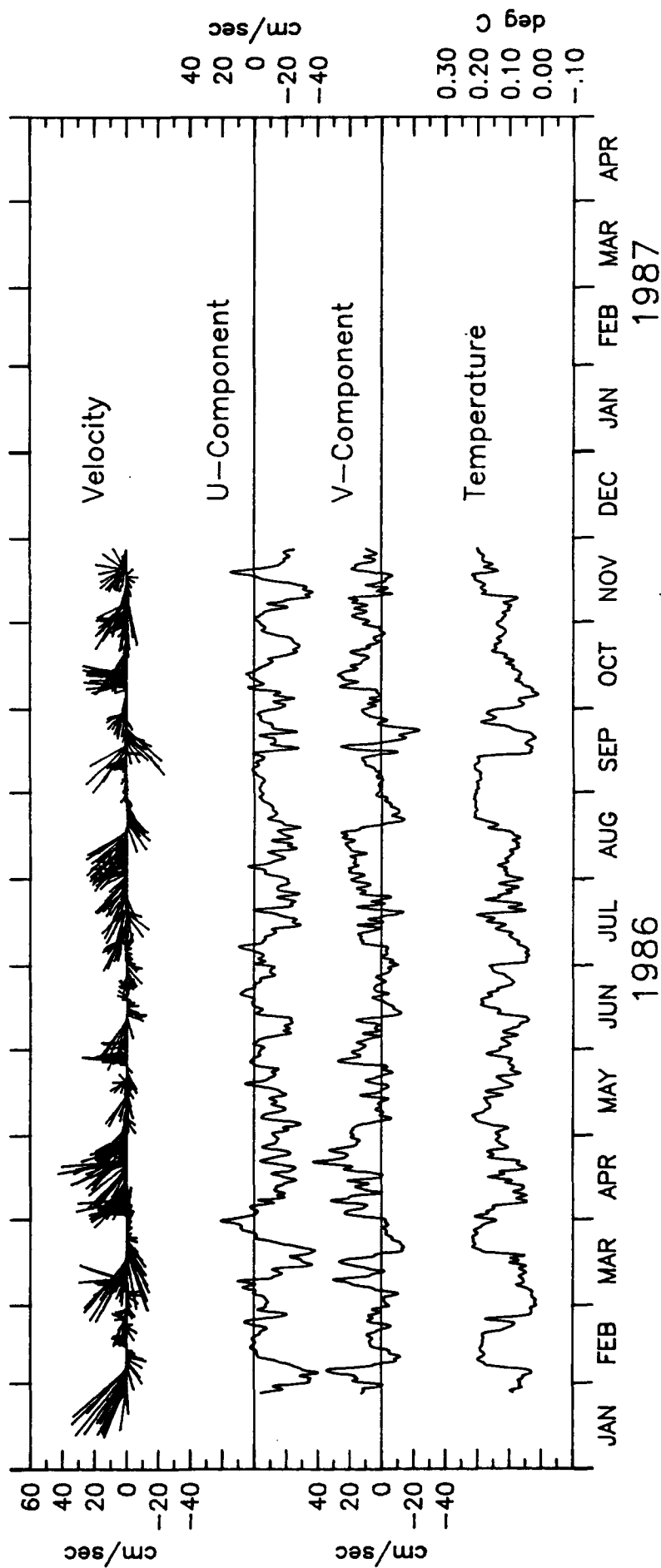
2355 M AT MOORING 3.



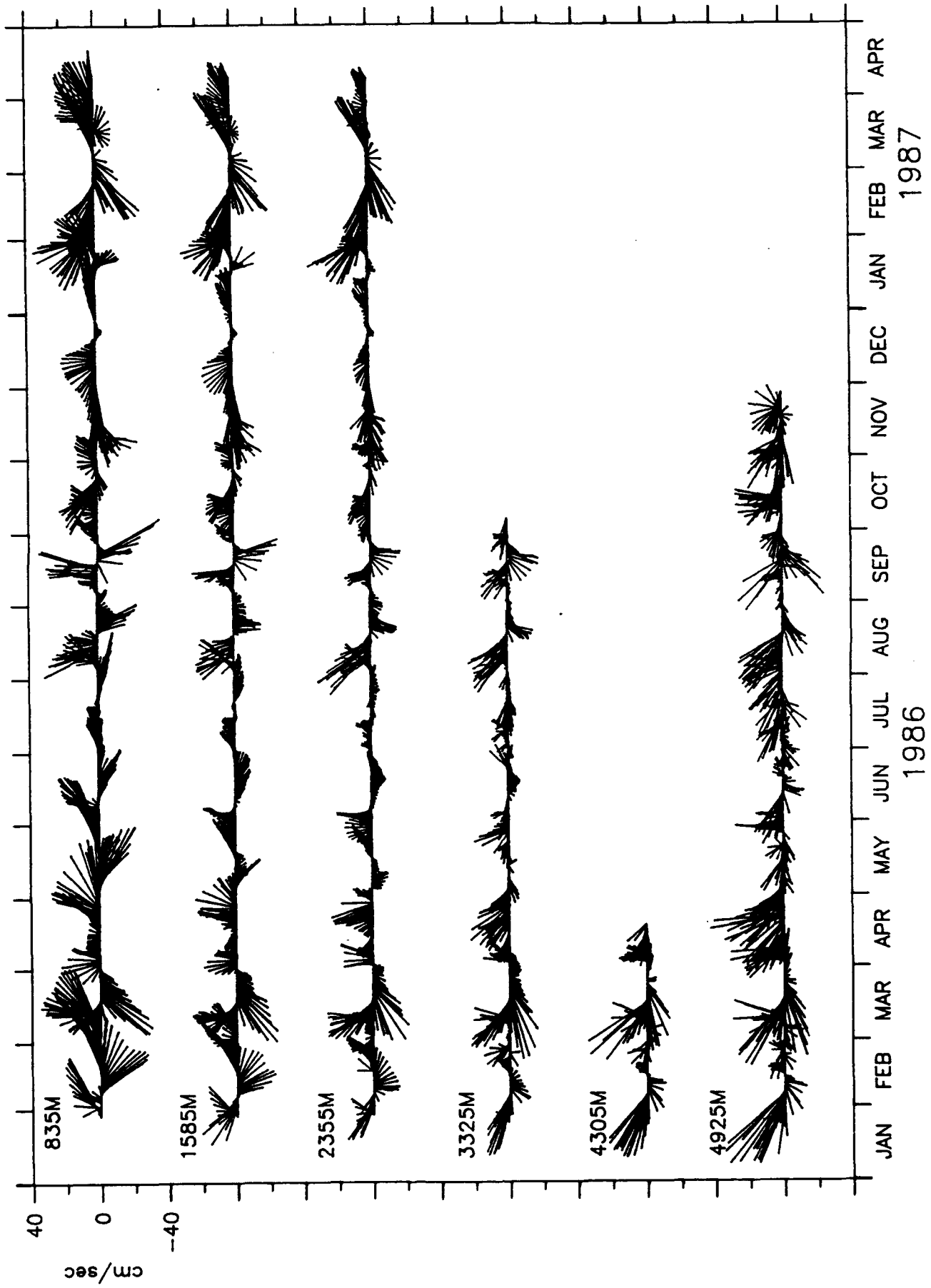
3325M AT MOORING 3.



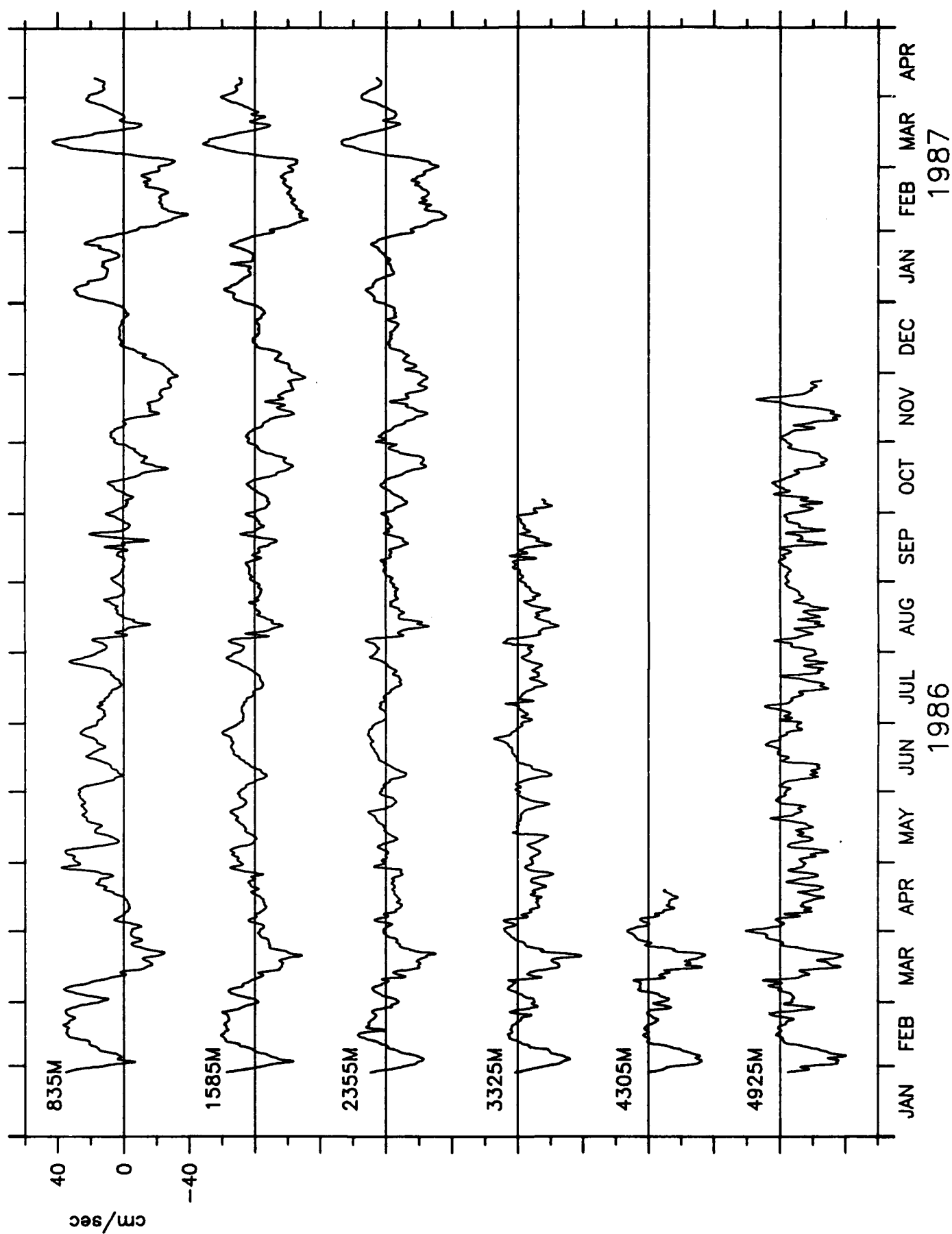
4305M AT MOORING 3.



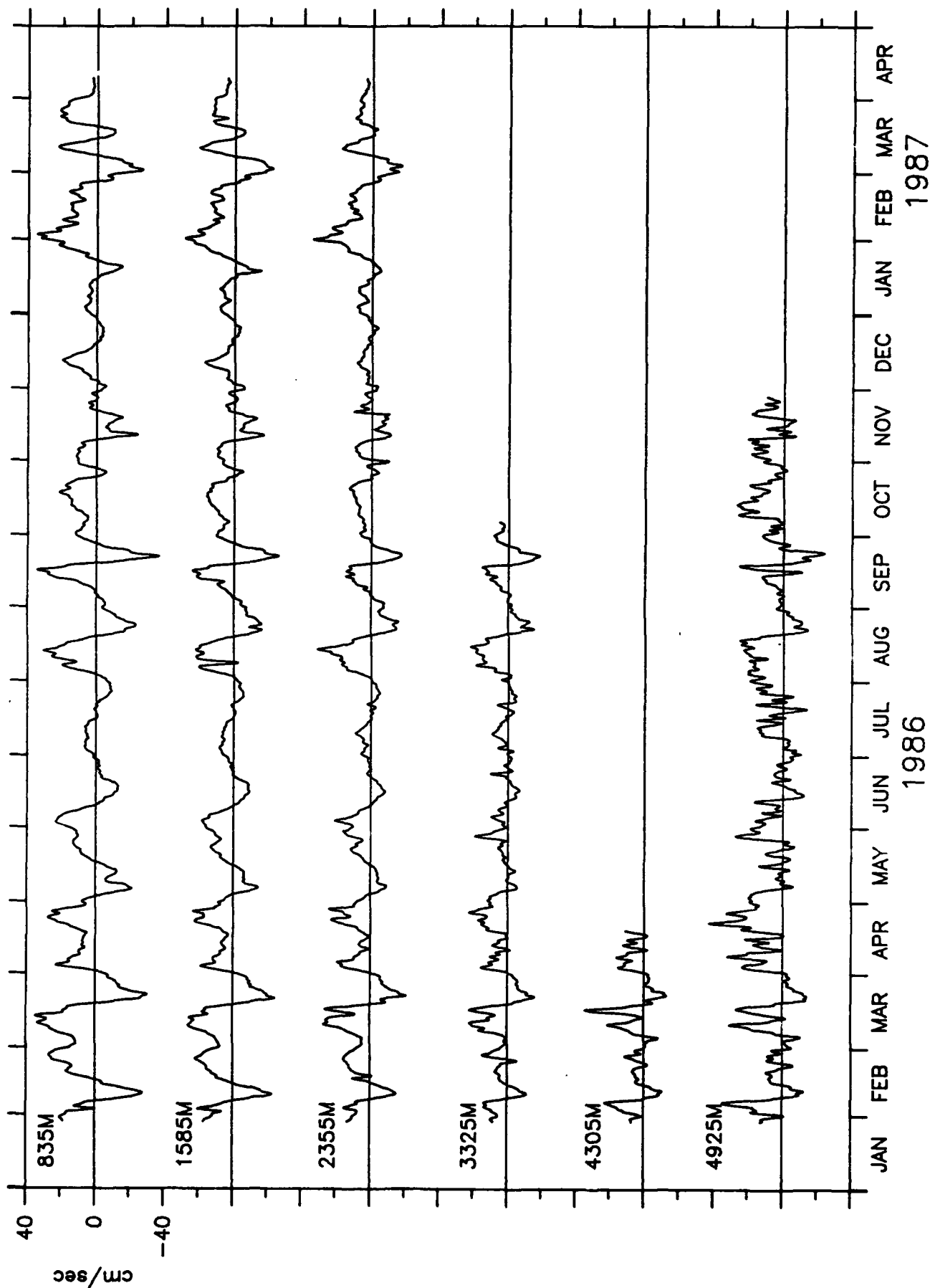
4925M AT MOORING 3.



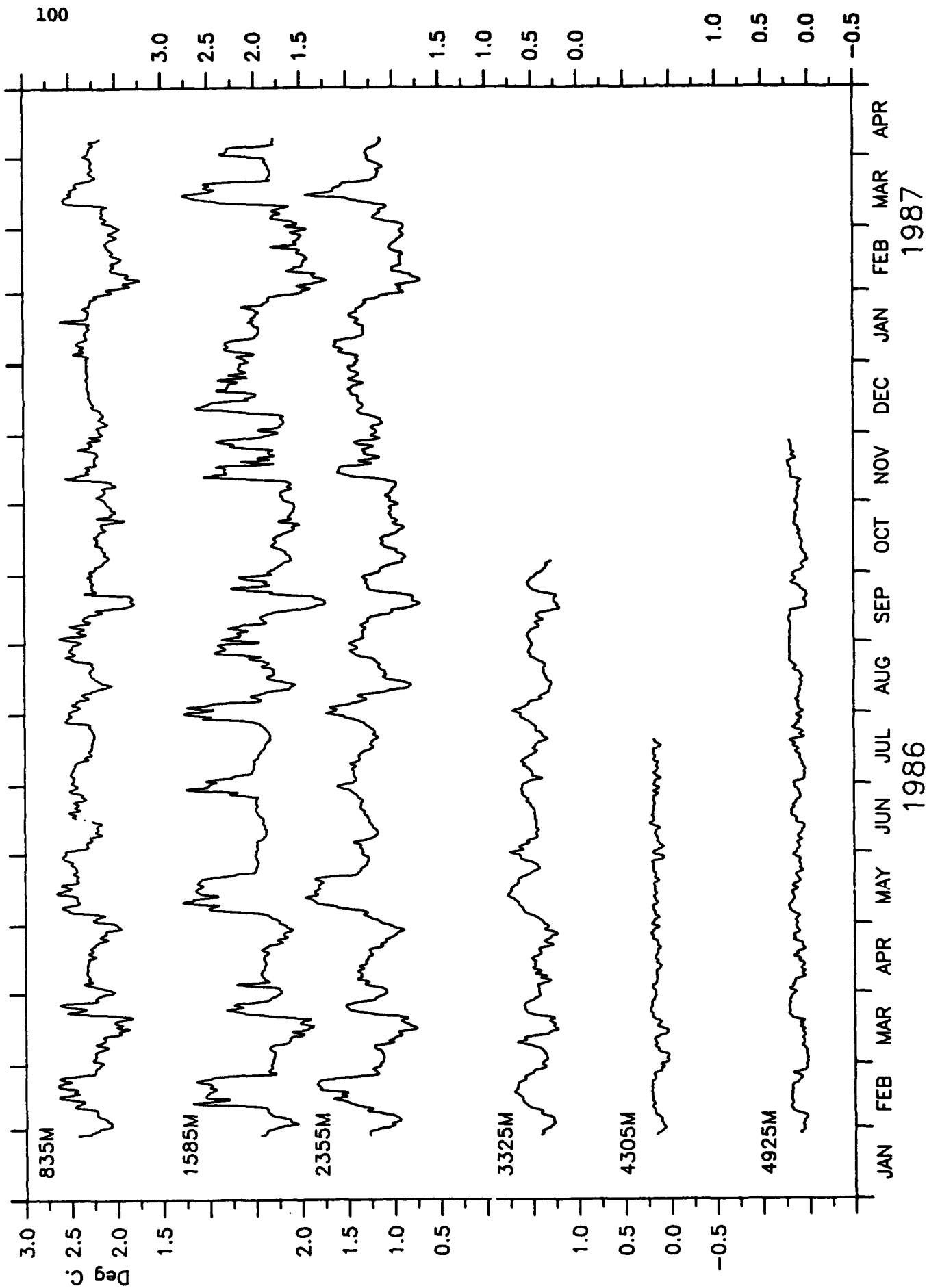
VELOCITY, MOORING 3.



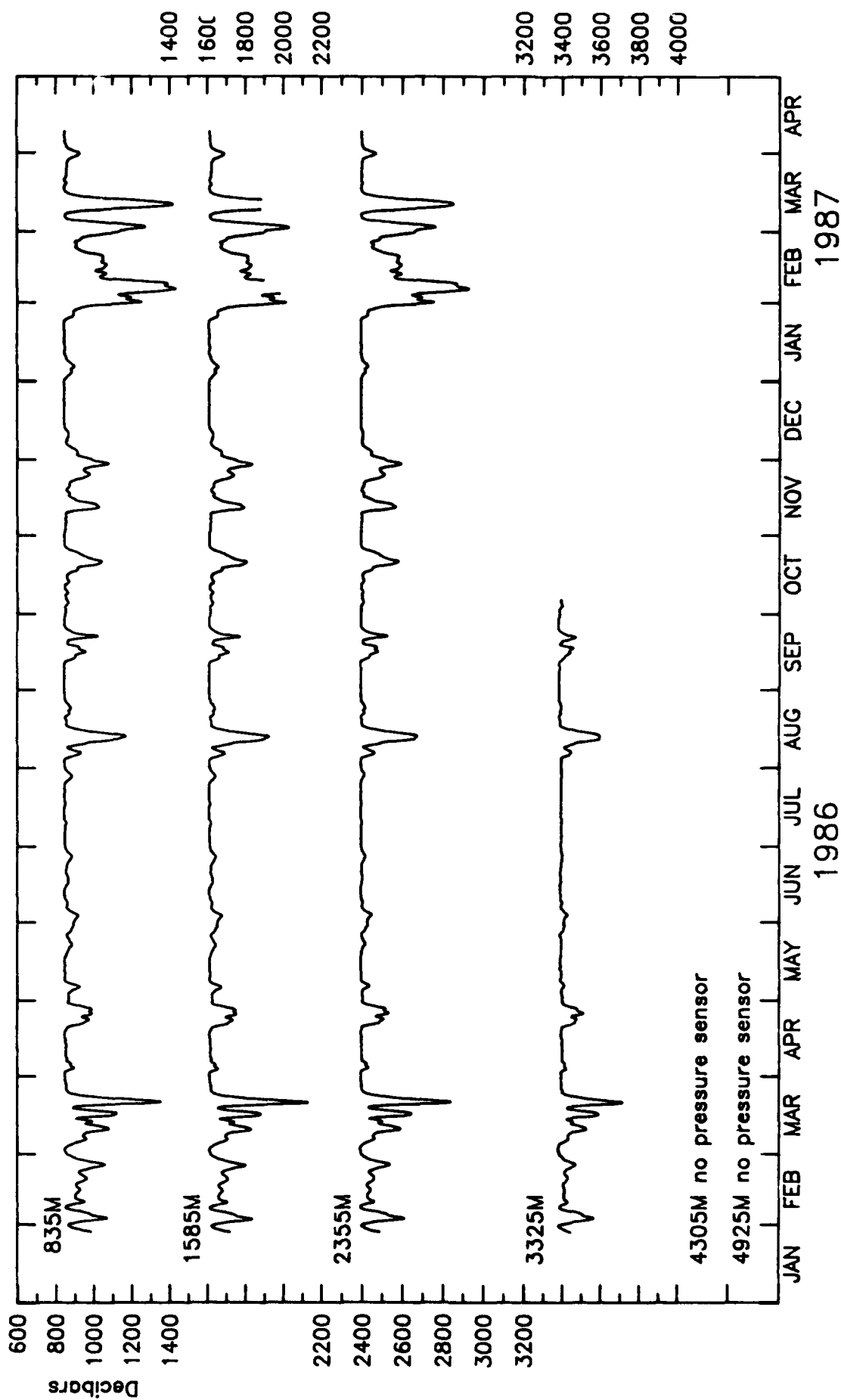
U-COMPONENT, MOORING 3.



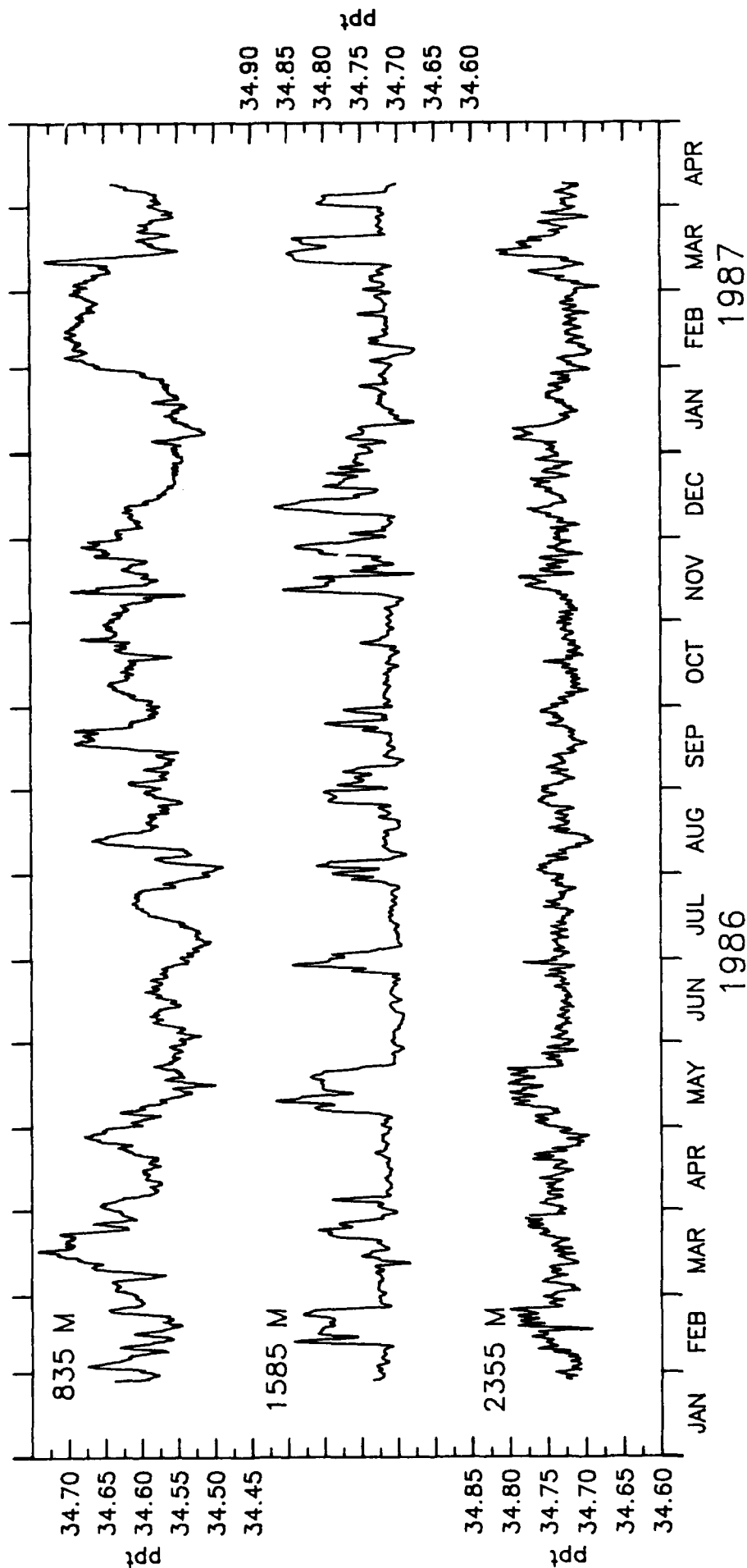
V-COMPONENT, MOORING 3.



TEMPERATURE, MOORING 3.



PRESSURE, MOORING 3.



CORRECTED SALINITY AT MOORING 3.

MOORING 4

48°50.00'S, 41°10.25'W

1986 1987

JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR

985 M



1750 M



2520 M



3535 M



4535 M



5335 M



DATA RETURN FROM MOORING 4.

MOORING 4 . UNFILTERED HOURLY DATA

985M AT MOORING 4. 0600 28 JAN 86 - 1300 27 MAR 87. TAPE 3123/38.

| | MEAN | SD | MIN | MAX | LENGTH | ENDS AT |
|---|---------|--------|--------|---------|--------|------------------|
| S | 24.87 | 10.70 | 0.80 | 54.00 | 10160 | (1300 27 MAR 87) |
| U | 17.94 | 13.03 | -18.70 | 53.90 | 10160 | (1300 27 MAR 87) |
| V | -1.15 | 15.50 | -45.50 | 46.00 | 10160 | (1300 27 MAR 87) |
| T | 2.37 | 0.26 | 0.71 | 2.90 | 10160 | (1300 27 MAR 87) |
| P | 1174.83 | 189.08 | 992.90 | 2144.90 | 10133 | (1300 27 MAR 87) |

1750M AT MOORING 4. 0700 28 JAN 86 - 2300 24 MAY 86. TAPE 4582/6.

| | | | | | | |
|---|---------|-------|---------|---------|------|------------------|
| S | 17.06 | 8.48 | 0.80 | 41.40 | 2400 | (2300 19 MAY 86) |
| U | 7.69 | 10.29 | -22.20 | 31.70 | 2400 | (2300 19 MAY 86) |
| V | -0.64 | 14.04 | -33.40 | 38.10 | 2400 | (2300 19 MAY 86) |
| T | 2.18 | 0.40 | 1.02 | 2.77 | 2742 | (2300 24 MAY 86) |
| P | 1874.38 | 84.52 | 1774.80 | 2140.40 | 2529 | (2300 24 MAY 86) |

2520M AT MOORING 4. 0600 28 JAN 86 - 1300 27 MAR 87. TAPE 7162/12.

| | | | | | | |
|---|---------|--------|---------|---------|-------|------------------|
| S | 13.84 | 8.18 | 0.80 | 48.10 | 10160 | (1300 27 MAR 87) |
| U | 5.35 | 9.37 | -43.00 | 44.00 | 10160 | (1300 27 MAR 87) |
| V | -0.68 | 11.90 | -42.50 | 44.80 | 10160 | (1300 27 MAR 87) |
| T | 1.37 | 0.33 | 0.59 | 2.19 | 10160 | (1300 27 MAR 87) |
| P | 2676.81 | 145.95 | 2556.10 | 3489.00 | 10135 | (1300 27 MAR 87) |

3535M AT MOORING 4. 0600 28 JAN 86 - 0000 12 APR 86. TAPE 503/59.

| | | | | | | |
|---|---------|-------|---------|---------|------|------------------|
| S | 9.03 | 5.21 | 0.70 | 24.00 | 1169 | (2200 17 MAR 86) |
| U | -5.80 | 5.06 | -21.00 | 9.20 | 1169 | (2200 17 MAR 86) |
| V | 2.03 | 6.74 | -16.20 | 23.40 | 1169 | (2200 17 MAR 86) |
| T | 0.60 | 0.19 | 0.26 | 0.96 | 1771 | (0000 12 APR 86) |
| P | 3679.47 | 98.87 | 3593.00 | 4086.00 | 1702 | (0200 9 APR 86) |

4535M AT MOORING 4. 0600 28 JAN 86 - 1200 5 FEB 87. TAPE 1534/34.

| | | | | | | |
|---|-------|-------|--------|-------|------|------------------|
| S | 12.33 | 7.73 | 0.80 | 45.00 | 5218 | (0200 5 FEB 87) |
| U | -3.70 | 7.62 | -33.90 | 19.00 | 2701 | (0200 18 NOV 86) |
| V | 1.68 | 12.45 | -31.60 | 44.60 | 2701 | (0200 18 NOV 86) |
| T | 0.19 | 0.04 | 0.02 | 0.46 | 8407 | (1200 13 JAN 86) |

(Speed, u, and v are given in cm/sec, Temperature in °C, Pressure in DB.)

MOORING 4 . UNFILTERED HOURLY DATA

5335M AT MOORING 4. 0600 28 JAN 86 - 1300 27 MAR 87. TAPE 4418/25.

| | | | | | | |
|---|-------|------|--------|-------|-------|------------------|
| S | 11.36 | 8.58 | 0.80 | 50.50 | 10160 | (1300 27 MAR 87) |
| U | 0.39 | 9.94 | -37.20 | 39.20 | 10160 | (1300 27 MAR 87) |
| V | 4.20 | 9.27 | -39.70 | 35.70 | 10160 | (1300 27 MAR 87) |
| T | 0.18 | 0.04 | 0.02 | 0.25 | 10160 | (1300 27 MAR 87) |

(955 M) BRIDGES IN SPEED RECORD, LINES:

1335 - 1368 (2000 24 MAR 86 - 0500 26 MAR 86)
 2470 - 2483 (0300 11 MAY 86 - 1600 11 MAY 86)
 5249 - 5396 (2200 3 SEP 86 - 0100 10 SEP 86)

PRESSURE OFFSCALE, SET TO ZERO LINES:

6631 - 6657 (1200 31 OCT 86 - 1400 1 NOV 86)

(1750 M) GAPS IN RECORD, LINES: (METER FLOODED)

SPEED 1799 - 2079 (0500 13 APR 86 - 2100 24 APR 86)
 DIRECTION 1800 - 1877 (0600 13 APR 86 - 1100 16 APR 86)
 TEMPERATURE 1810 - 1868 (1600 13 APR 86 - 0200 16 APR 86)

GAPS IN PRESSURE RECORD, (OFFSCALE) LINES:

1283 - 1311 (1700 22 MAR 86 - 2100 23 MAR 86)
 1528 - 1698 (2200 1 APR 86 - 0000 9 APR 86)
 1807 - 1868 (1300 13 APR 86 - 0200 16 APR 86)
 1994 - 2003 (0800 21 APR 86 - 1700 21 APR 86)

(2520 M) PRESSURE OFFSCALE, GAPS LINES:

6631 - 6655 (1200 31 OCT 86 - 1200 1 NOV 86)

(3535 M) DATA IN ALL CHANNELS OF POOR QUALITY, RECORD TERMINATED EARLY.

(4535 M) DATA IN ALL CHANNELS OF POOR QUALITY, RECORD TERMINATED EARLY. GAPS IN RECORDS LINES:

SPEED 1407 - 4460 (2000 27 MAR 86 - 0100 2 AUG 86)
 6987 - 7673 (0800 15 NOV 86 - 2200 13 DEC 86)
 DIRECTION 1 - 1231 (0600 28 JAN 86 - 1200 20 MAR 86)
 1849 - 2702 (0600 15 APR 86 - 1900 20 MAY 86)

MOORING 4. LLP FILTERED 6-HOURLY DATA

985M AT MOORING 4. 0600 29 JAN 86 - 1200 26 MAR 87. TAPE 3123/38.

| | MEAN | SD | MIN | MAX | LENGTH | ENDS AT |
|---|---------|--------|---------|---------|--------|------------------|
| U | 17.91 | 12.62 | -12.41 | 48.96 | 1686 | (1200 26 MAR 87) |
| V | -1.24 | 15.07 | -37.42 | 42.12 | 1686 | (1200 26 MAR 87) |
| T | 2.37 | 0.25 | 1.00 | 2.79 | 1686 | (1200 26 MAR 87) |
| P | 1170.64 | 181.79 | 1013.34 | 1917.07 | 1673 | (1200 26 MAR 87) |
| S | 34.76 | 3.31 | 34.56 | 34.90 | 1667 | (1200 26 MAR 87) |

1750M AT MOORING 4. 1200 29 JAN 86 - 1800- 23 MAY 86. TAPE 4582/6.

| | | | | | | |
|---|---------|-------|---------|---------|-----|------------------|
| U | 7.63 | 10.03 | -13.58 | 26.82 | 383 | (1800 18 MAY 86) |
| V | -0.98 | 13.89 | -29.49 | 35.27 | 383 | (1800 18 MAY 86) |
| T | 2.18 | 0.39 | 1.03 | 2.67 | 440 | (1800 23 MAY 86) |
| P | 1861.89 | 73.11 | 1774.66 | 2065.12 | 371 | (1800 23 MAY 86) |
| S | 34.76 | 2.03 | 34.68 | 34.85 | 432 | (1800 23 MAY 86) |

2520M AT MOORING 4. 0600 29 JAN 86 - 1200 26 MAR 87. TAPE 7162/12.

| | | | | | | |
|---|---------|--------|---------|---------|------|------------------|
| U | 5.35 | 9.02 | -41.47 | 39.73 | 1686 | (1200 26 MAR 87) |
| V | -0.74 | 11.57 | -32.15 | 40.92 | 1686 | (1200 26 MAR 87) |
| T | 1.37 | 0.33 | 0.63 | 2.13 | 1686 | (1200 26 MAR 87) |
| P | 2673.27 | 139.32 | 2555.89 | 3281.64 | 1673 | (1200 26 MAR 87) |
| S | 34.74 | 2.73 | 34.67 | 34.81 | 1529 | (1200 26 MAR 87) |

3535M AT MOORING 4. 0600 29 JAN 86 - 0000 11 APR 86. TAPE 503/59.

| | | | | | | |
|---|---------|-------|---------|---------|-----|------------------|
| U | -5.79 | 4.45 | -17.51 | 4.74 | 187 | (0000 11 APR 86) |
| V | 1.91 | 6.50 | -11.59 | 20.96 | 187 | (1800 16 MAR 86) |
| T | 0.60 | 0.19 | 0.27 | 0.92 | 288 | (1800 16 MAR 86) |
| P | 3677.56 | 98.12 | 3597.58 | 4079.81 | 276 | (0000 11 APR 86) |

4535M AT MOORING 4. 0600 29 JAN 86 - 1200 12 JAN 87. TAPE 1534/34.

| | | | | | | |
|---|-------|-------|--------|-------|------|------------------|
| U | -3.78 | 7.26 | -24.02 | 9.55 | 434 | (0600 14 NOV 86) |
| V | 2.13 | 12.13 | -23.49 | 27.47 | 434 | (0600 14 NOV 86) |
| T | 0.19 | 0.03 | 0.04 | 0.28 | 1394 | (1200 12 JAN 87) |

5335M AT MOORING 4. 0600 29 JAN 86 - 1200 26 MAR 87. TAPE 4418/25.

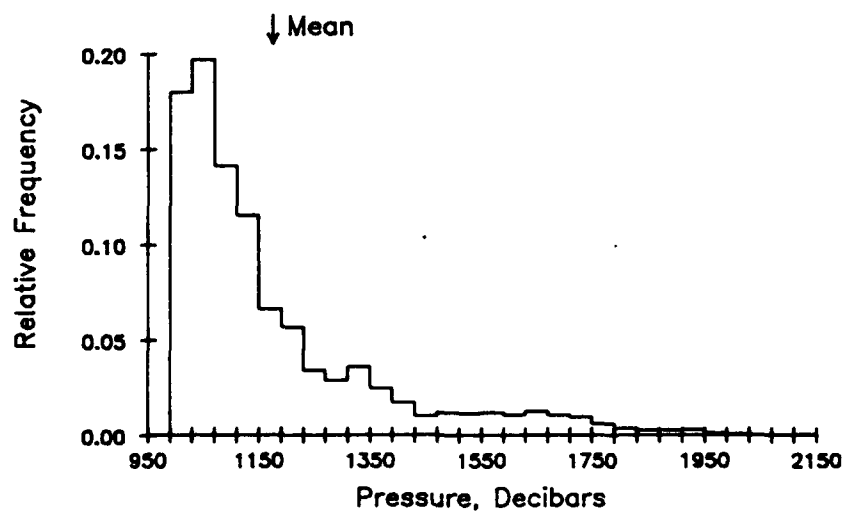
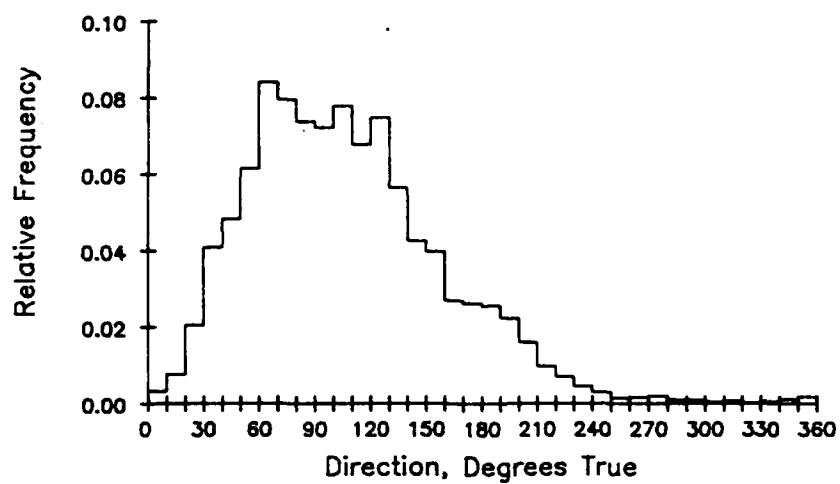
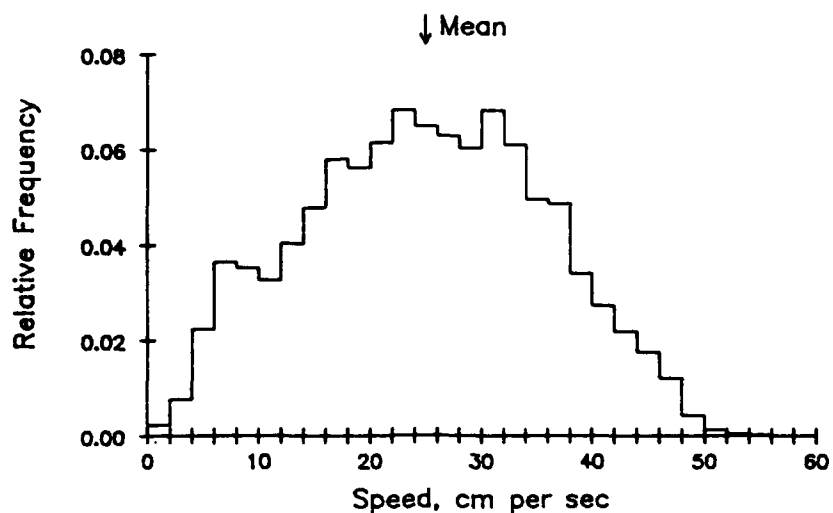
| | | | | | | |
|---|------|------|--------|-------|------|------------------|
| U | 0.45 | 9.38 | -28.25 | 30.56 | 1686 | (1200 26 MAR 87) |
| V | 4.13 | 8.84 | -31.43 | 28.10 | 1686 | (1200 26 MAR 87) |
| T | 0.18 | 0.04 | 0.02 | 0.24 | 1686 | (1200 26 MAR 87) |

(Speed, u, and v are given in cm/sec, Temperature in °C, Pressure in DB, and Corrected Salinity in ppt.)

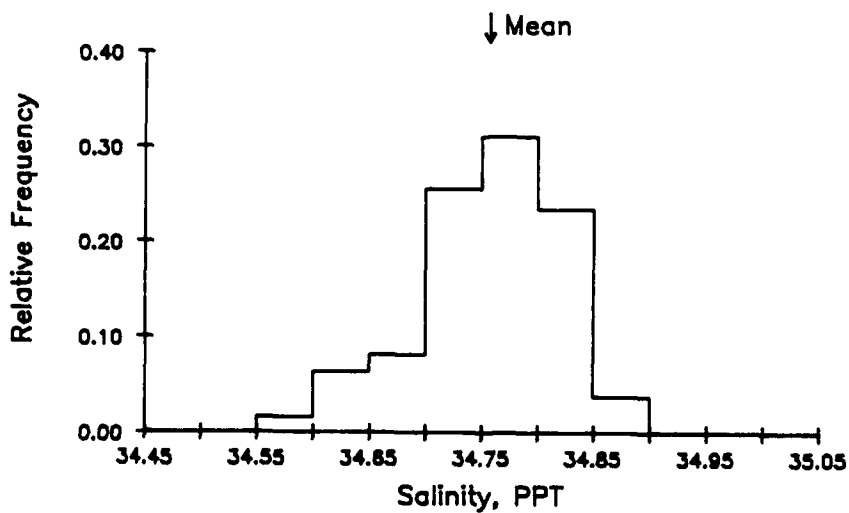
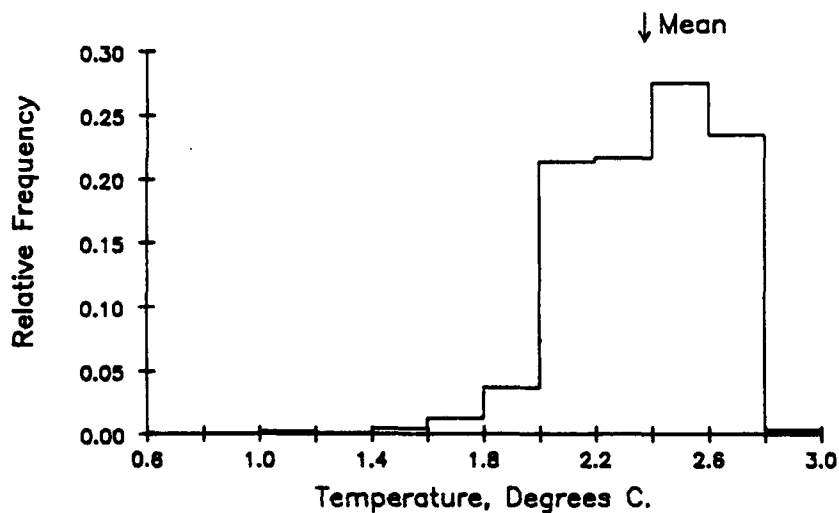
MOORING 4. LLP FILTERED 6-HOURLY DATA

- (985 M) BRIDGES IN UNFILTERED SPEED RECORD
 PRESSURE OFFSCALE, GAPS IN RECORD LINES:
 1098 - 1110 (1800 30 OCT 86 - 1200 2 NOV 86)
 GAPS IN SALINITY RECORD. BAD, OFFSCALE SALINITY POINTS
 REMOVED.
- (1750 M) METER FLOODED, SHORT RECORD
 OFFSCALE AND BAD VALUES SET REMOVED BEFORE FILTERING,
 GAPS IN LINES:
- | | | |
|-------------|-----------|-----------------------------------|
| U, V | 292 - 346 | (0600 12 APR 86 - 1800 25 APR 86) |
| TEMPERATURE | 294 - 311 | (1800 12 APR 86 - 0000 17 APR 86) |
| PRESSURE | 206 - 218 | (1800 21 MAR 86 - 1800 24 MAR 86) |
| | 247 - 311 | (0000 1 APR 86 - 0000 17 APR 86) |
| | 325 - 333 | (1200 20 APR 86 - 1200 22 APR 86) |
- GAPS IN SALINITY RECORD, BAD VALUES REMOVED
- (2520 M) PRESSURE OFFSCALE, GAPS IN THE FOLLOWING LINES:
 1098 - 1110 (1200 30 OCT 86 - 0600 2 NOV 86)
 GAPS IN SALINITY RECORD. BAD, OFFSCALE SALINITY POINTS
- (3535 M) DATA IN ALL CHANNELS OF POOR QUALITY, RECORD TERMINATED
 EARLY.
- (4535 M) DATA IN ALL CHANNELS OF POOR QUALITY, RECORD TERMINATED
 EARLY. GAPS IN SPEED, & DIRECTION IN UNFILTERED
 RECORD, LLP GAPS, LINES IN U & V:
- | | |
|-------------|-----------------------------------|
| 1 - 206 | (0600 29 JAN 86 - 1200 21 MAR 86) |
| 228 - 744 | (0000 27 MAR 86 - 0000 3 AUG 86) |
| 1158 - 1395 | (1200 14 NOV 86 - 1200 12 JAN 87) |

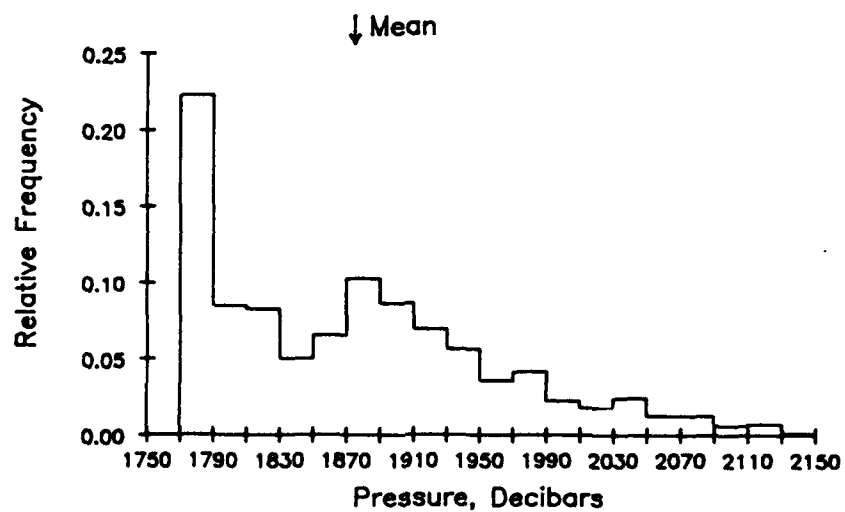
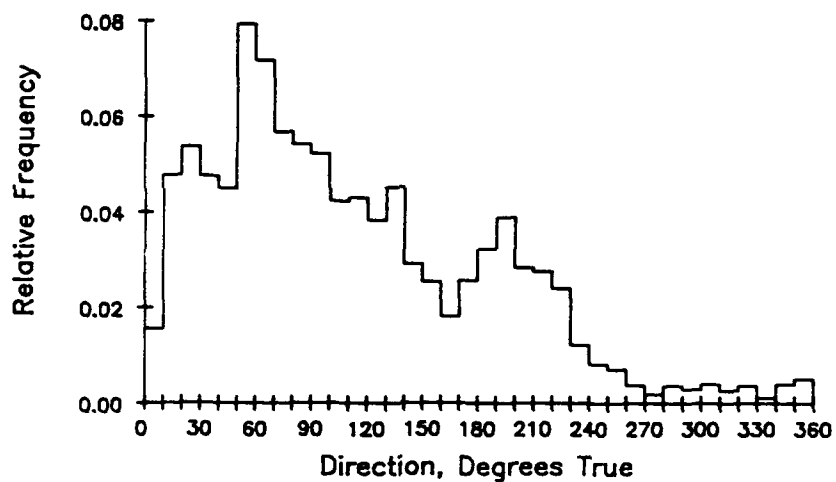
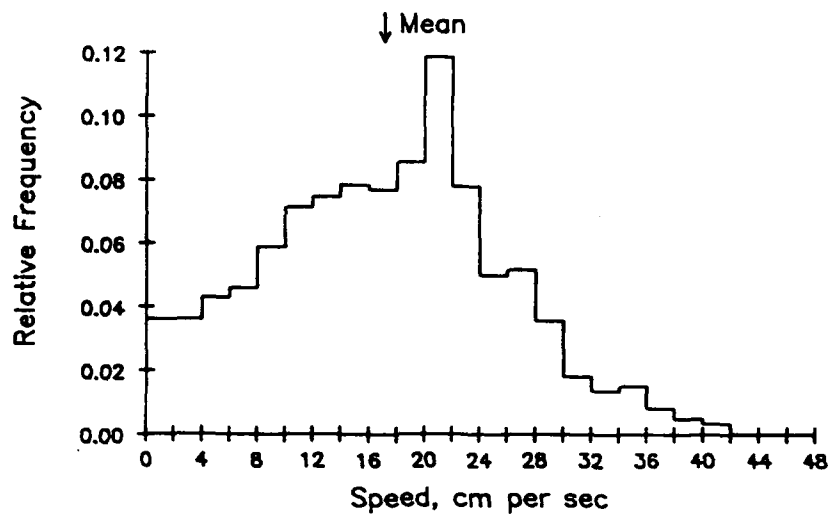
985 METERS AT MOORING 4. TAPE 3123/38.



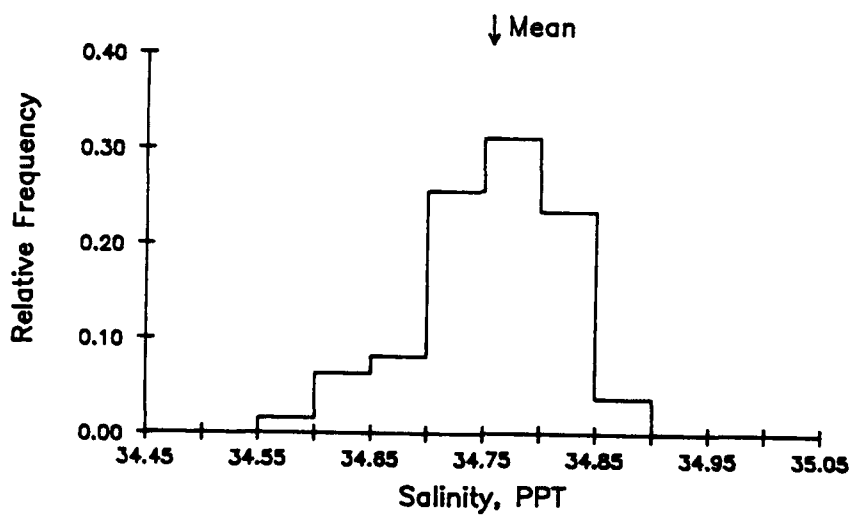
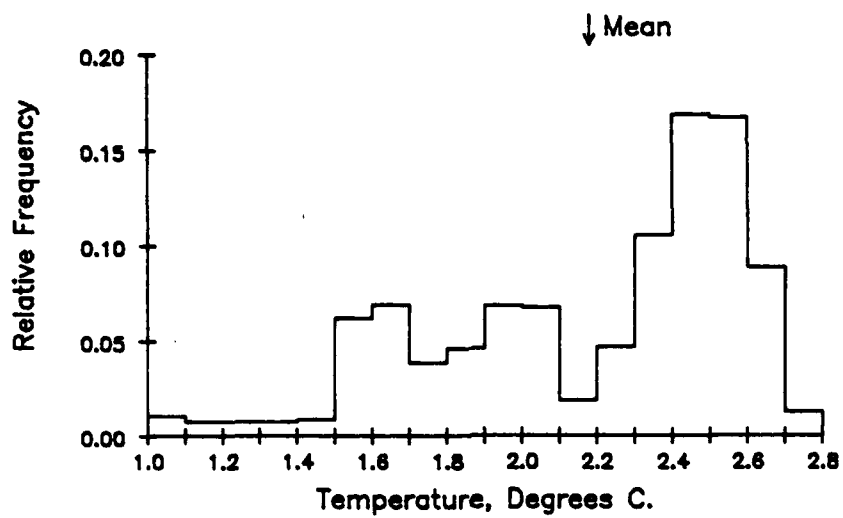
985 METERS AT MOORING 4. TAPE 3123/38.



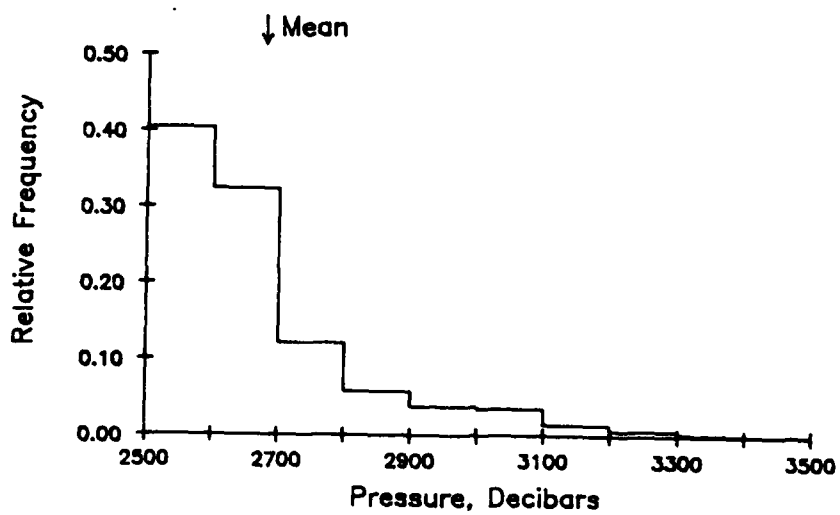
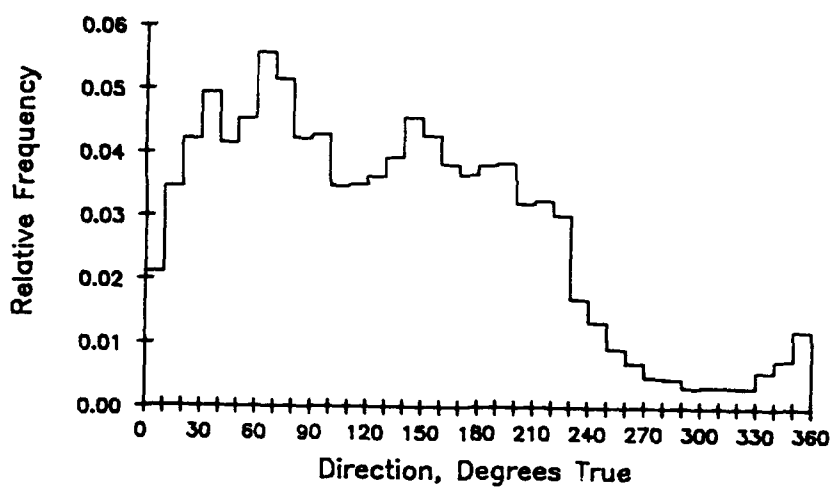
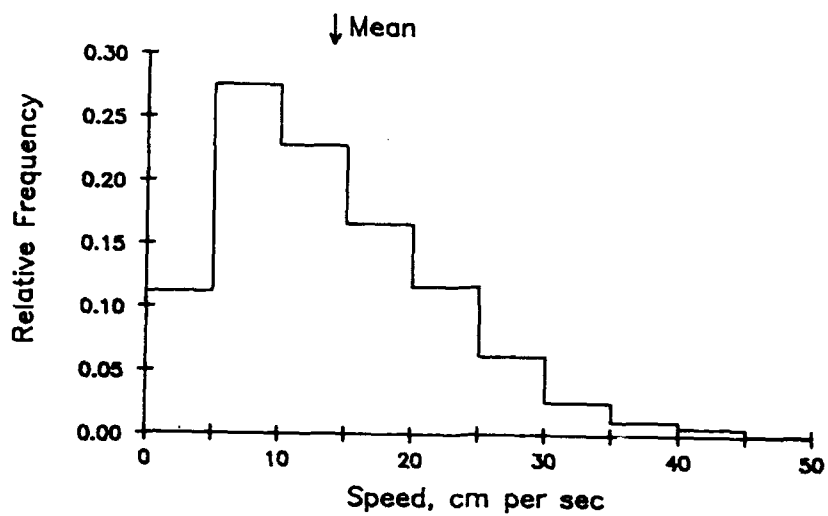
1750 METERS AT MOORING 4. TAPE 4582/6.



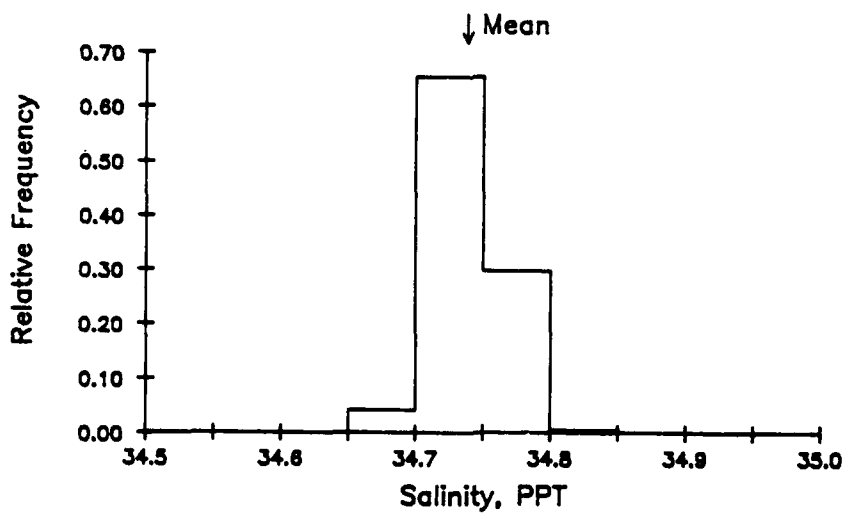
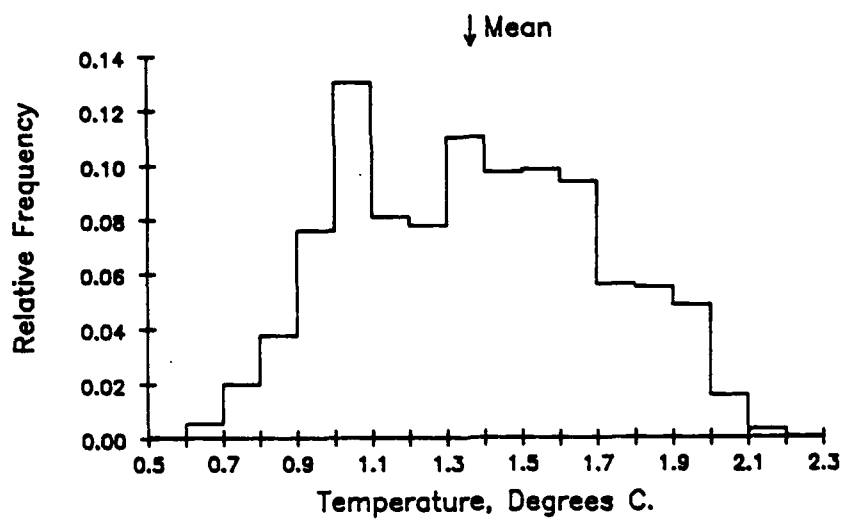
1750 METERS AT MOORING 4. TAPE 4582/6.



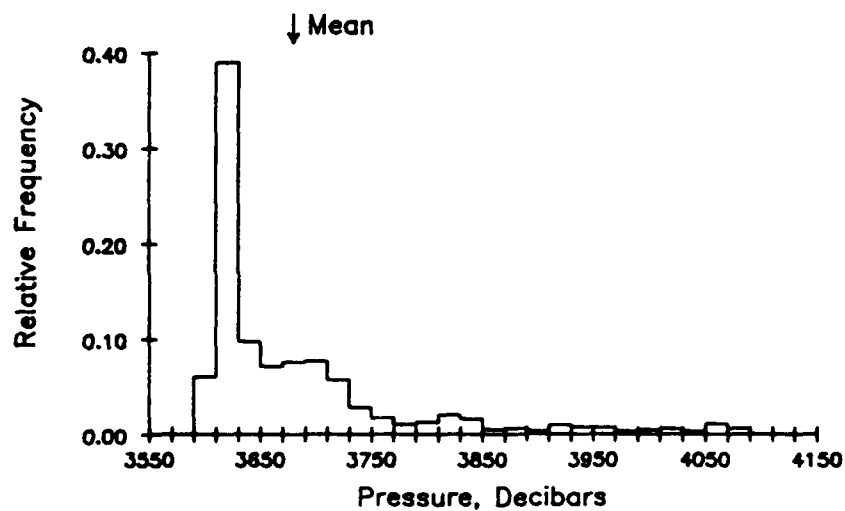
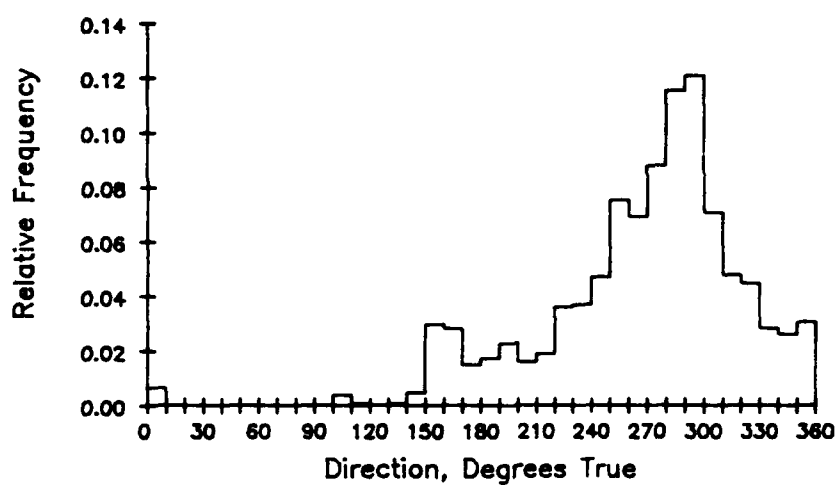
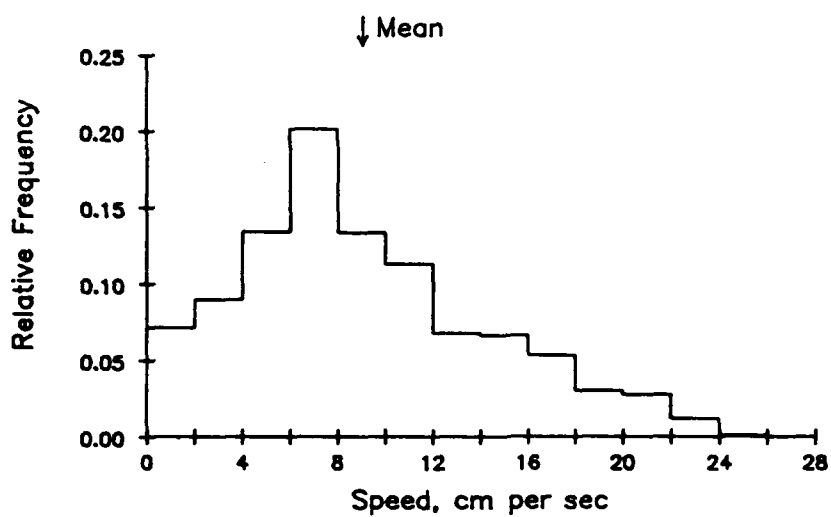
2520 METERS AT MOORING 4. TAPE 7162/12.



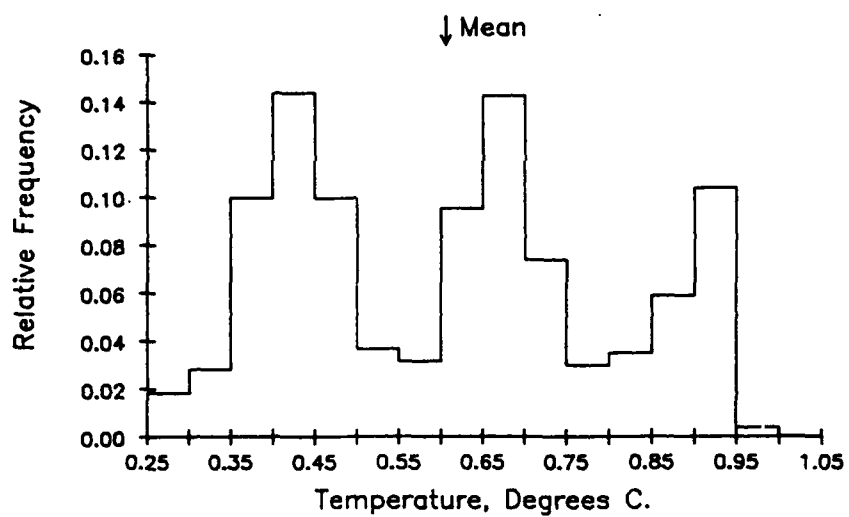
2520 METERS AT MOORING 4. TAPE 7162/12.



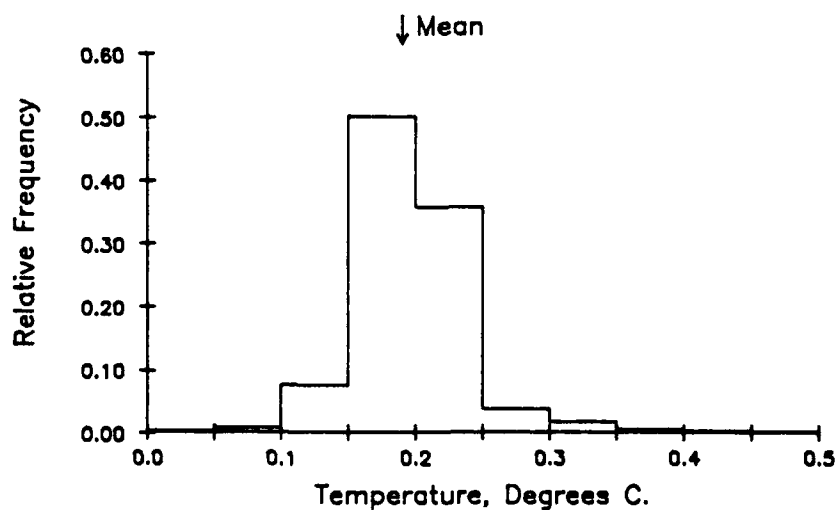
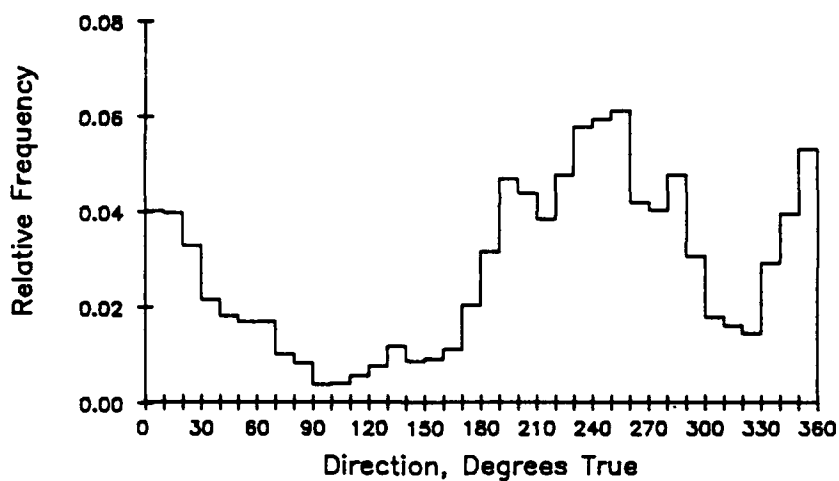
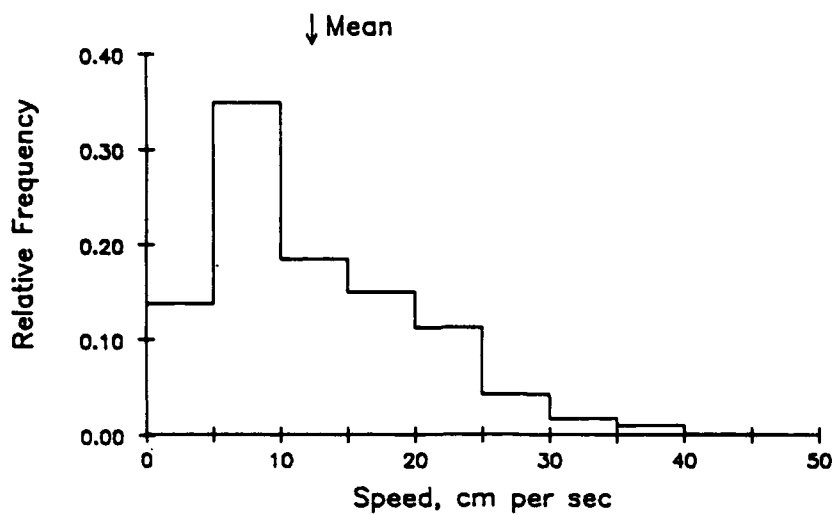
3535 METERS AT MOORING 4. TAPE 503/59.



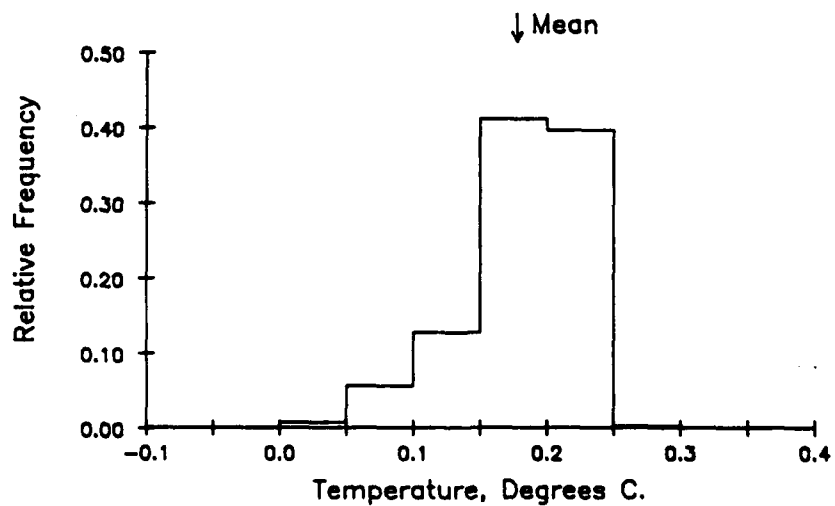
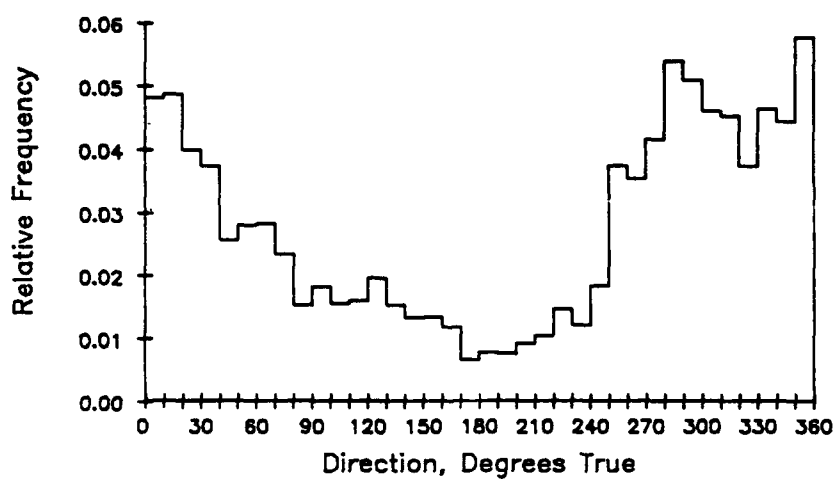
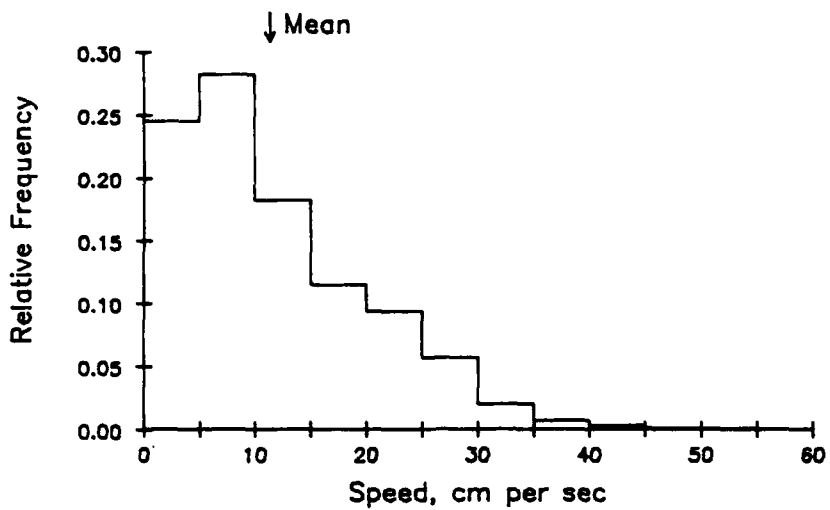
3535 METERS AT MOORING 4. TAPE 503/59.



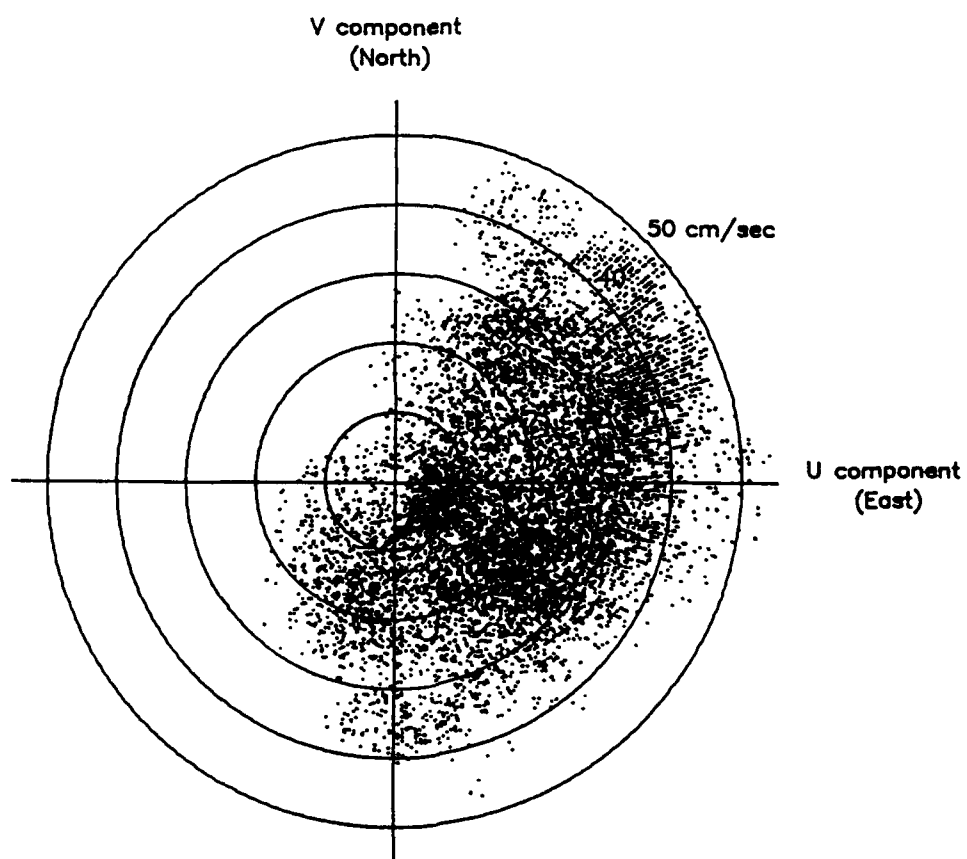
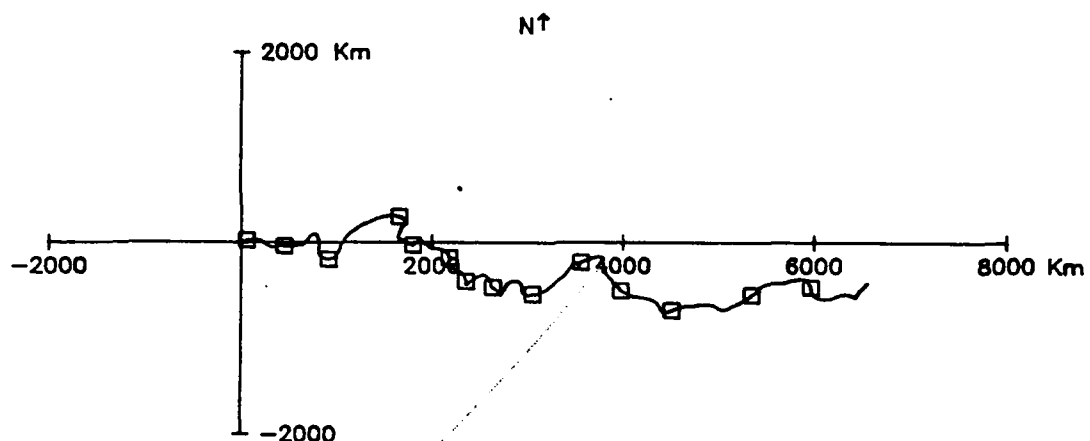
4535 METERS AT MOORING 4. TAPE 1534/34.



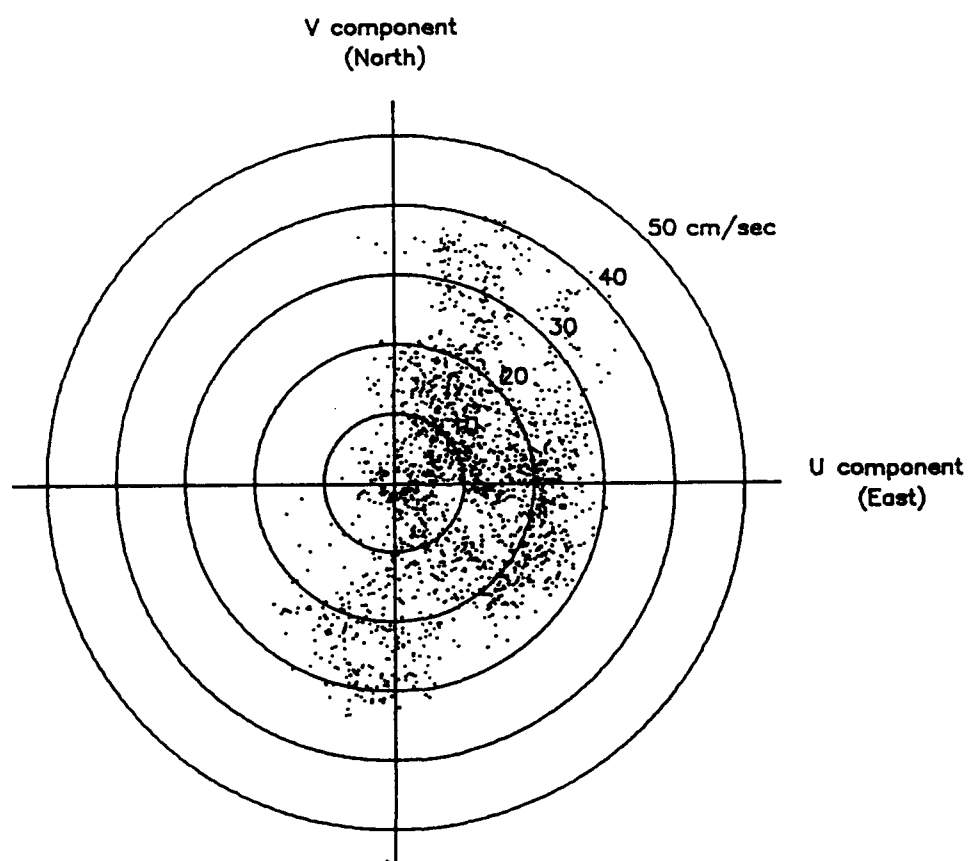
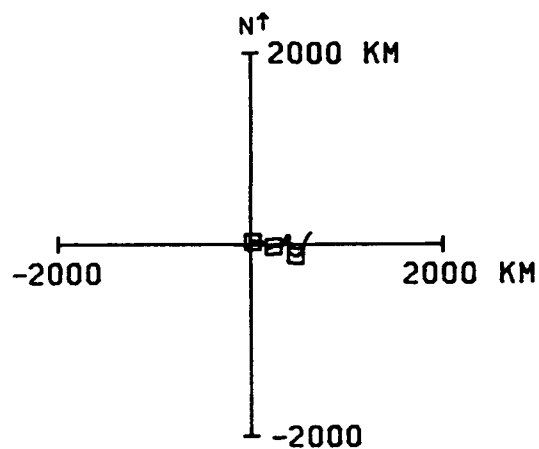
5335 METERS AT MOORING 4. TAPE 4418/25.



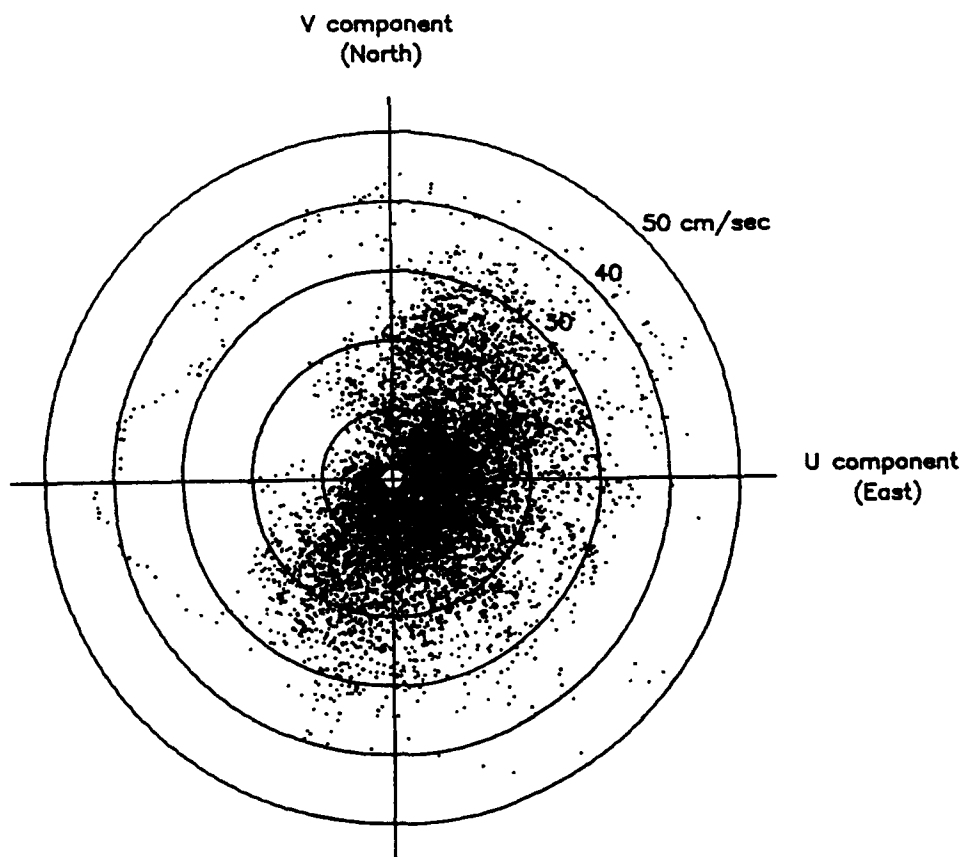
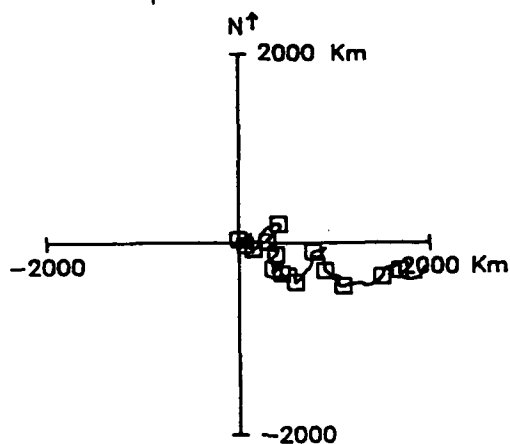
985M AT MOORING 4. 28 JAN 86 - 27 MAR 87. TAPE 3123/38.



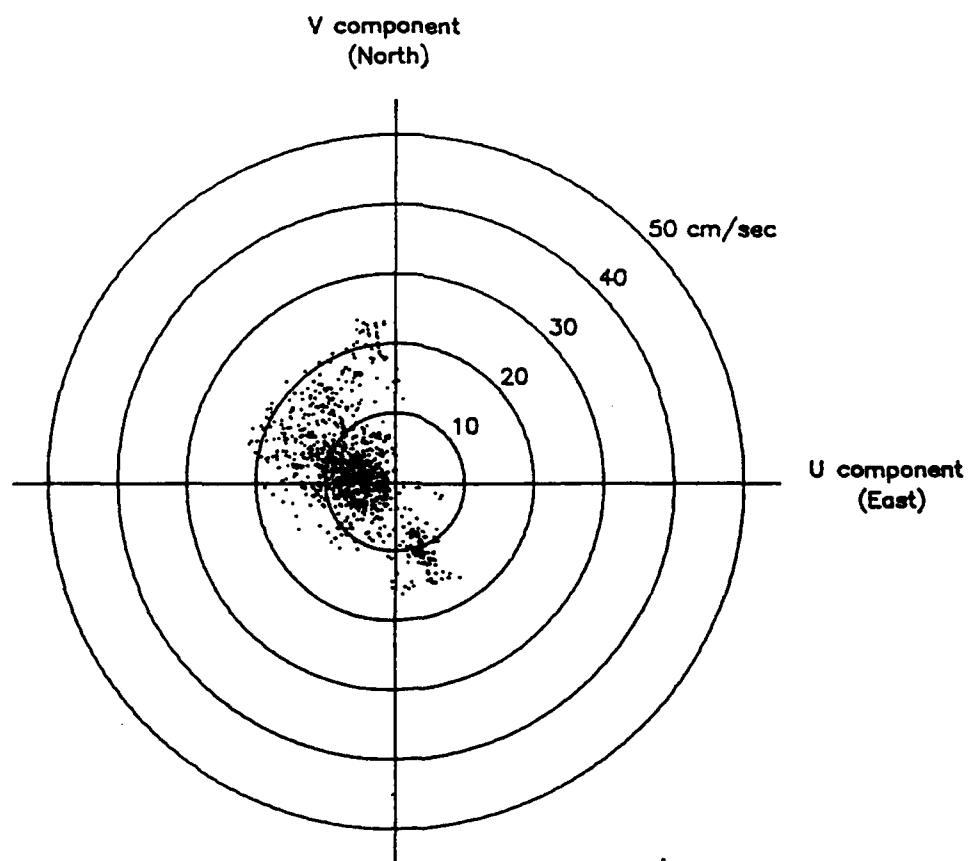
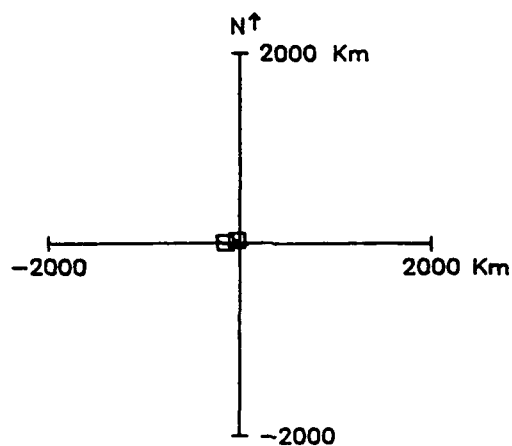
1750M AT MOORING 4. 28 JAN 86 - 13 APR 86. TAPE 4582/6



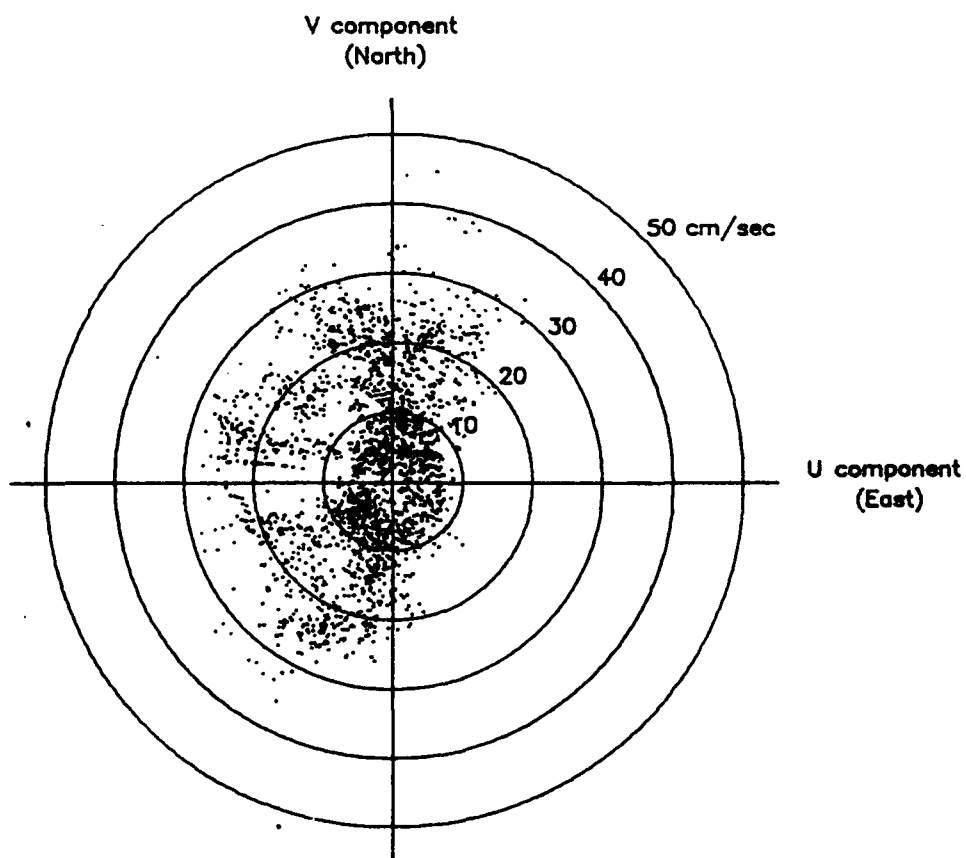
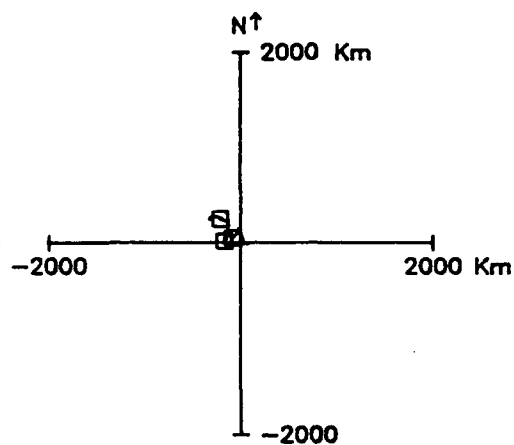
2520M AT MOORING 4. 28 JAN 86 - 27 MAR 87. TAPE 7162/12.



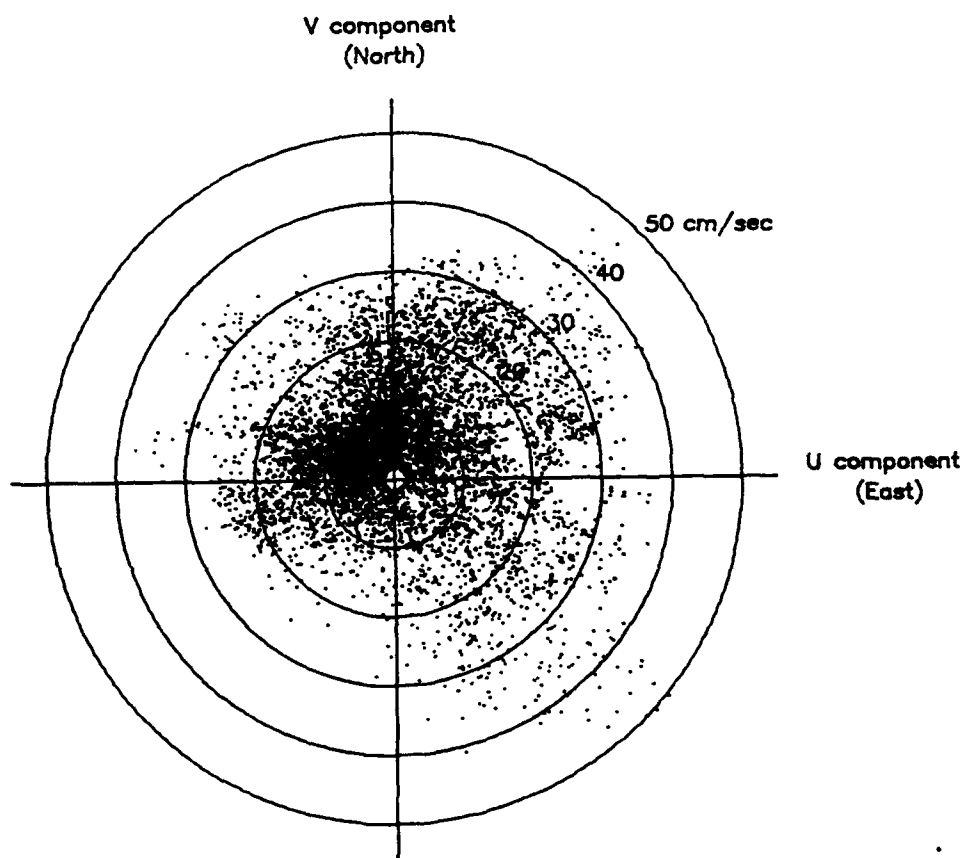
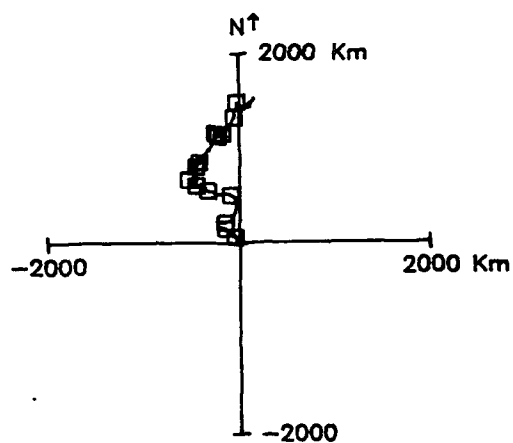
3535M AT MOORING 4. 28 JAN 86 - 17 MAR 86. TAPE 503/59.



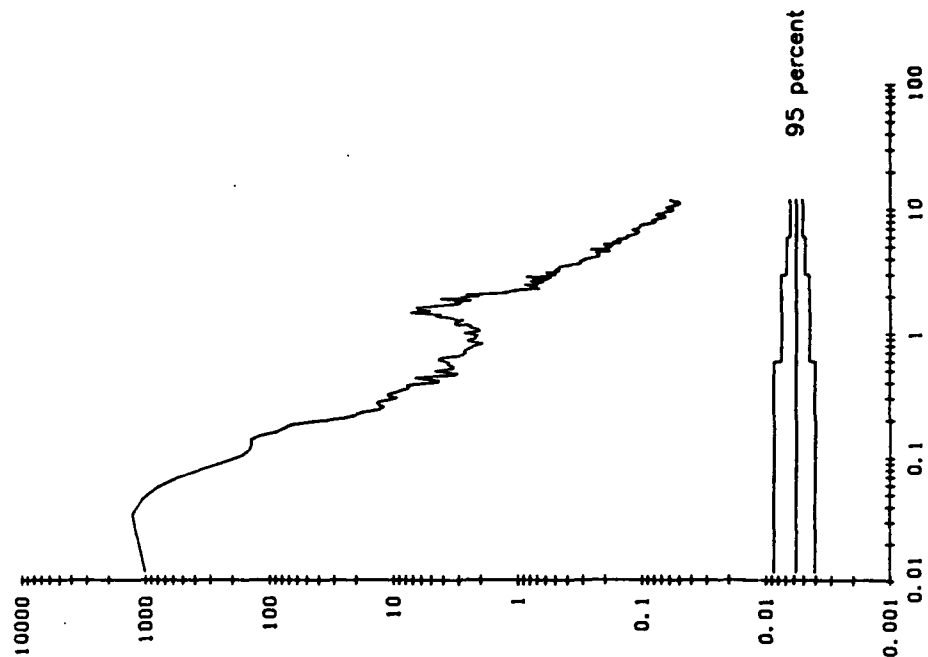
4535M AT MOORING 4. 2 AUG 86 - 15 NOV 86. TAPE 1534/34.



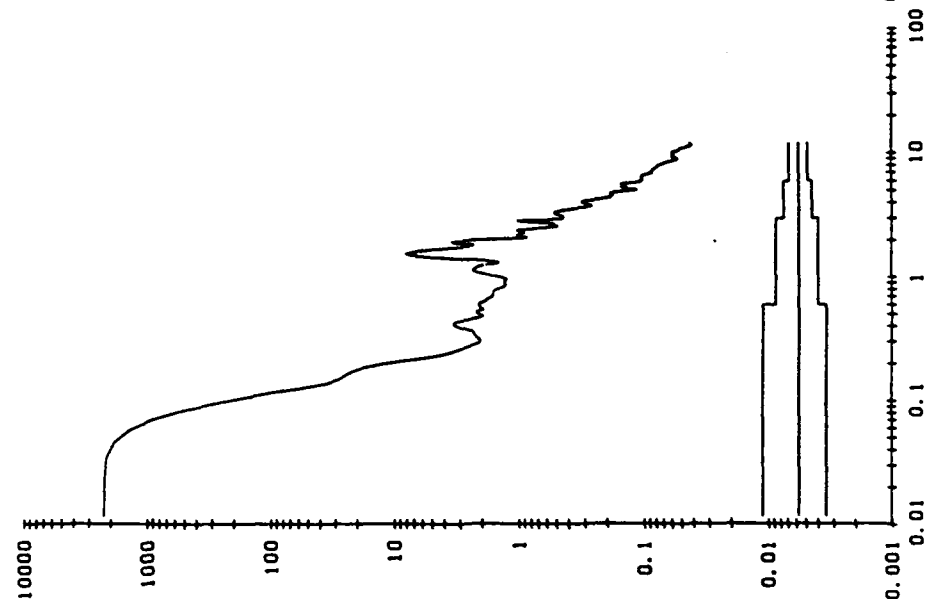
5335M AT MOORING 4. 28 JAN 86 - 27 MAR 87. TAPE 4418/25.



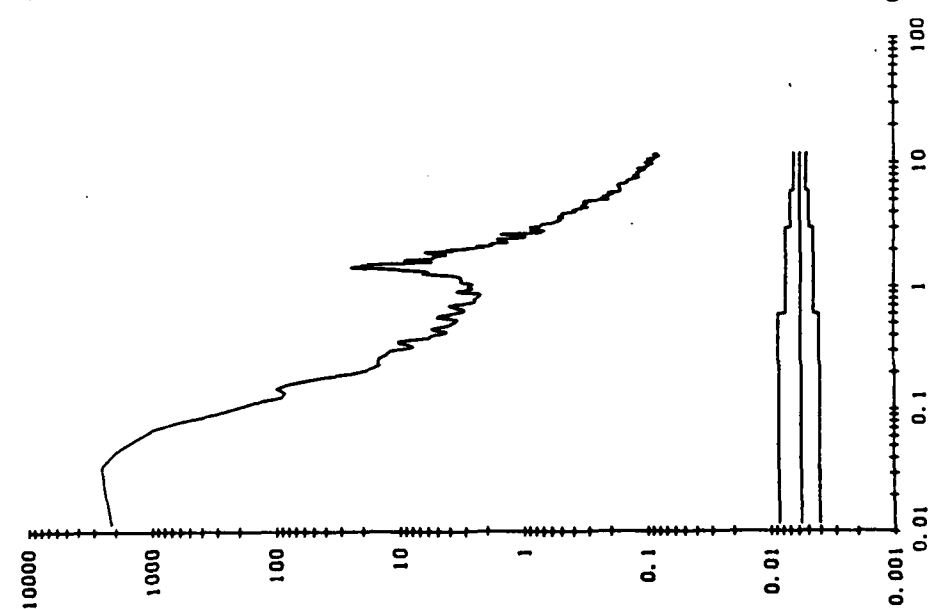
Unfiltered current. 2520 m at Mooring 4.
Both components



Unfiltered current. 1750 m at Mooring 4.
Both components



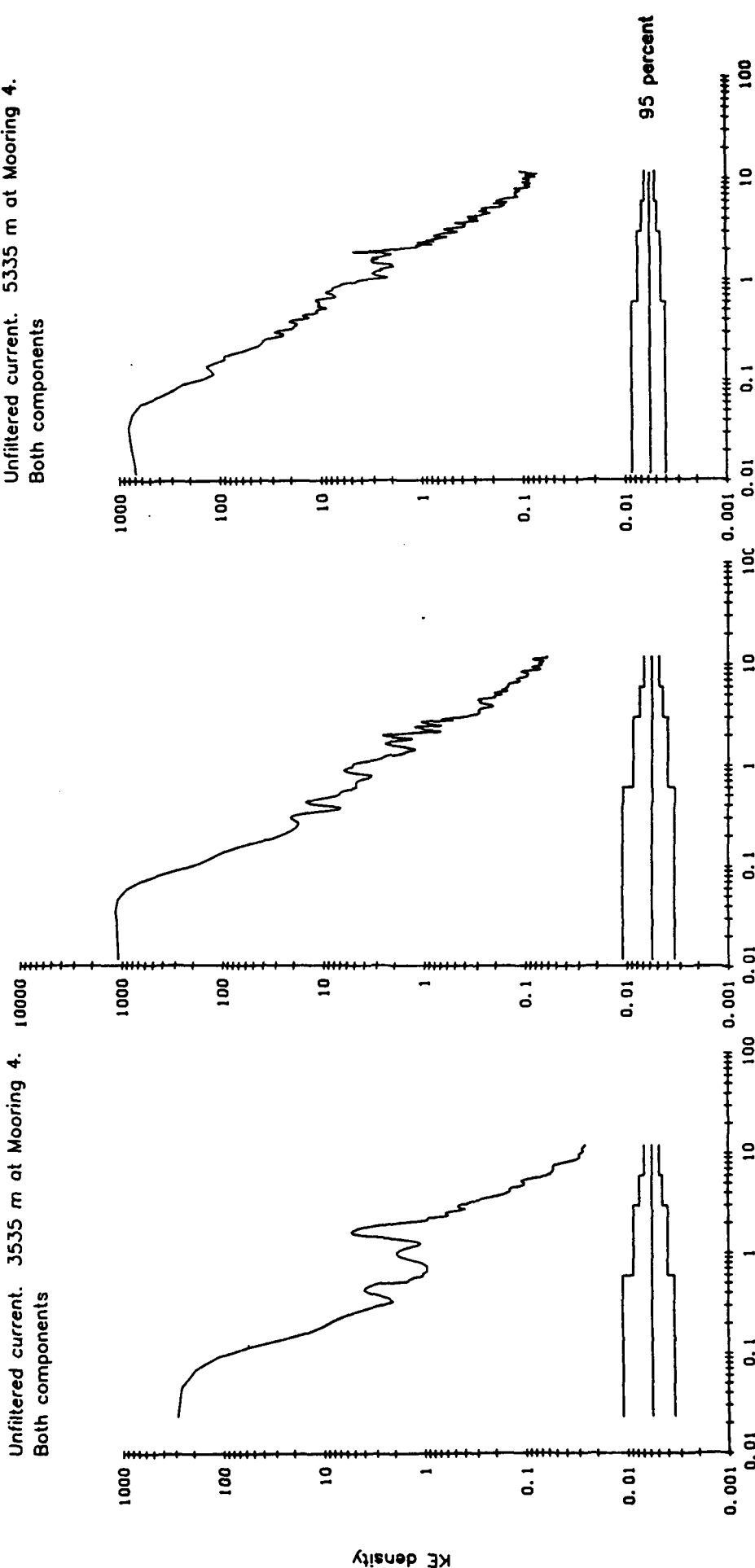
Unfiltered current. 985 m at Mooring 4.
Both components



KE density

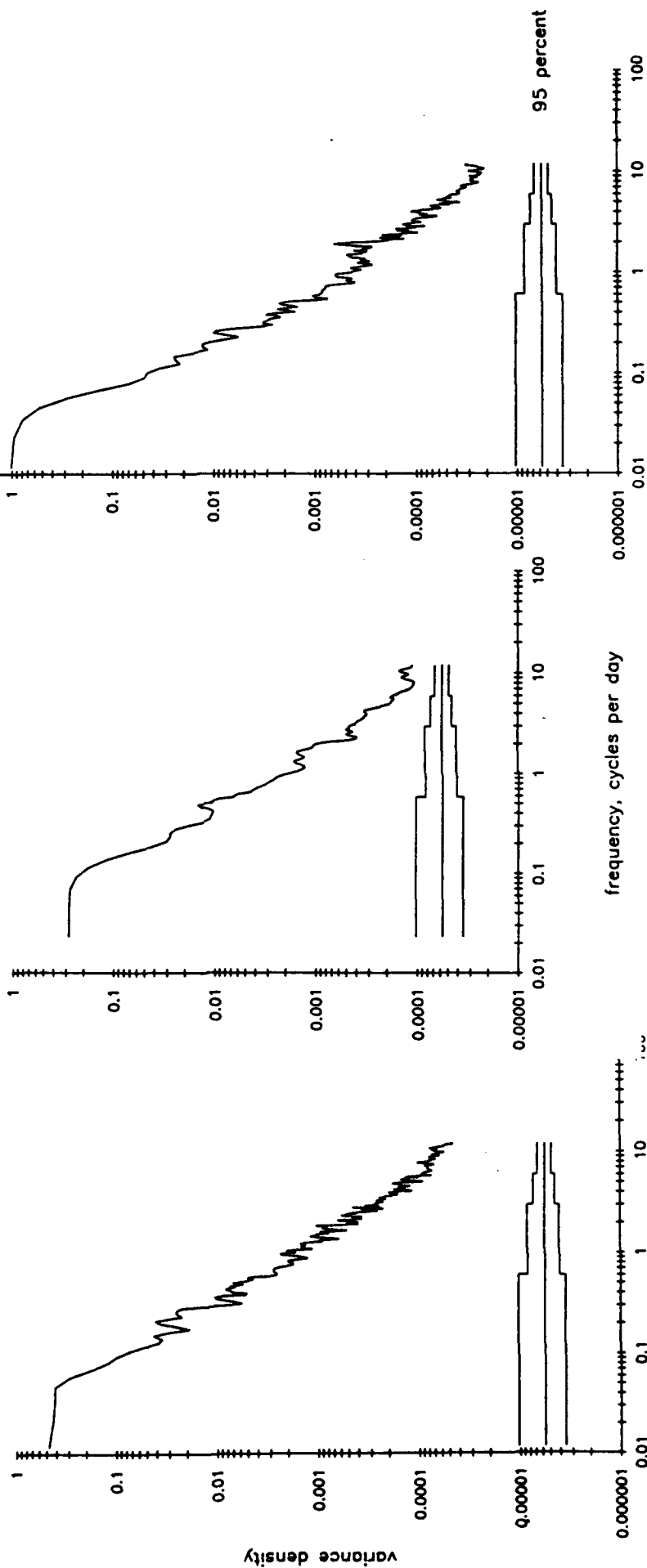
frequency, cycles per day

Unfiltered current. 4535 m at Mooring 4.
Both components

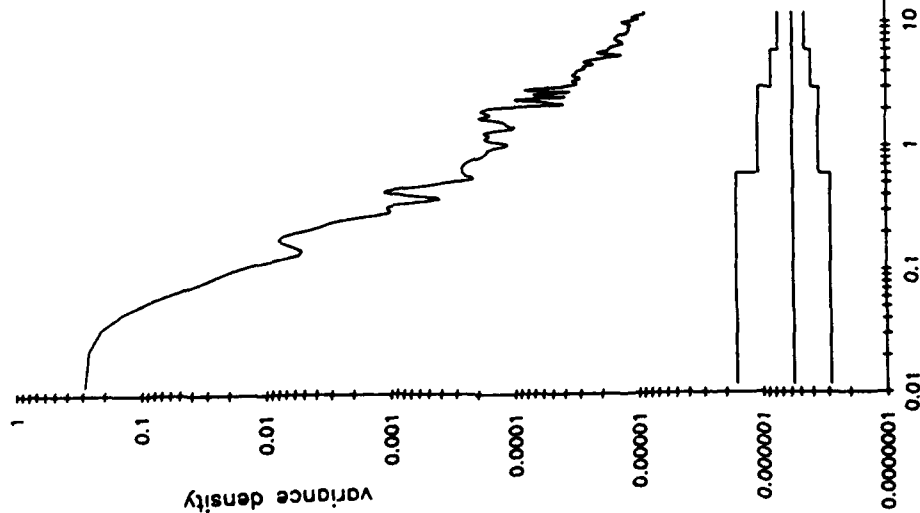


Unfiltered temperature. 2520 m at Mooring 4.

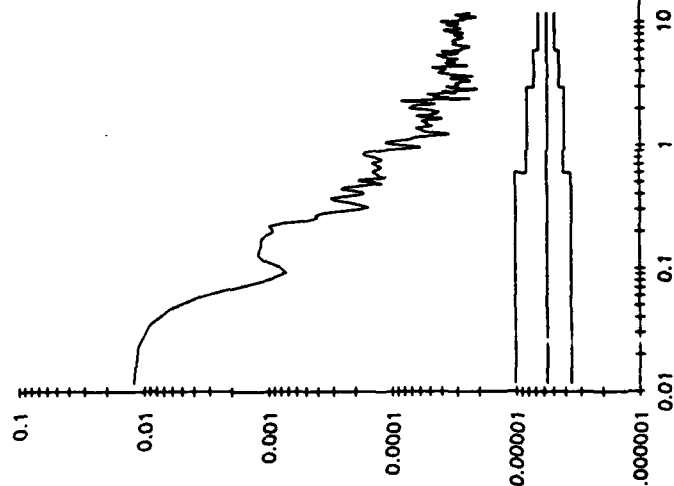
Unfiltered temperature. 985 m at Mooring 4. Unfiltered temperature. 1750 m at Mooring 4.



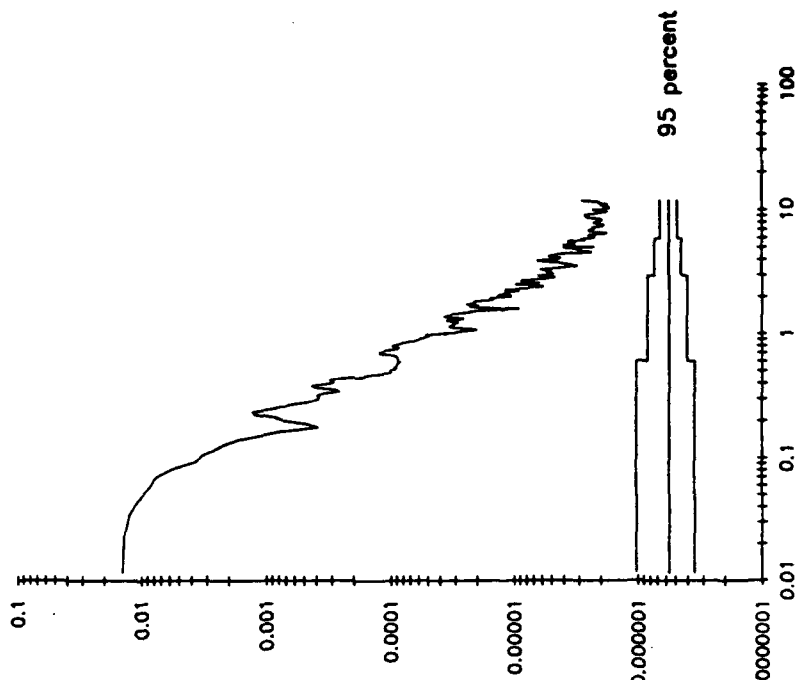
Unfiltered temperature. 3535 m at Mooring 4.



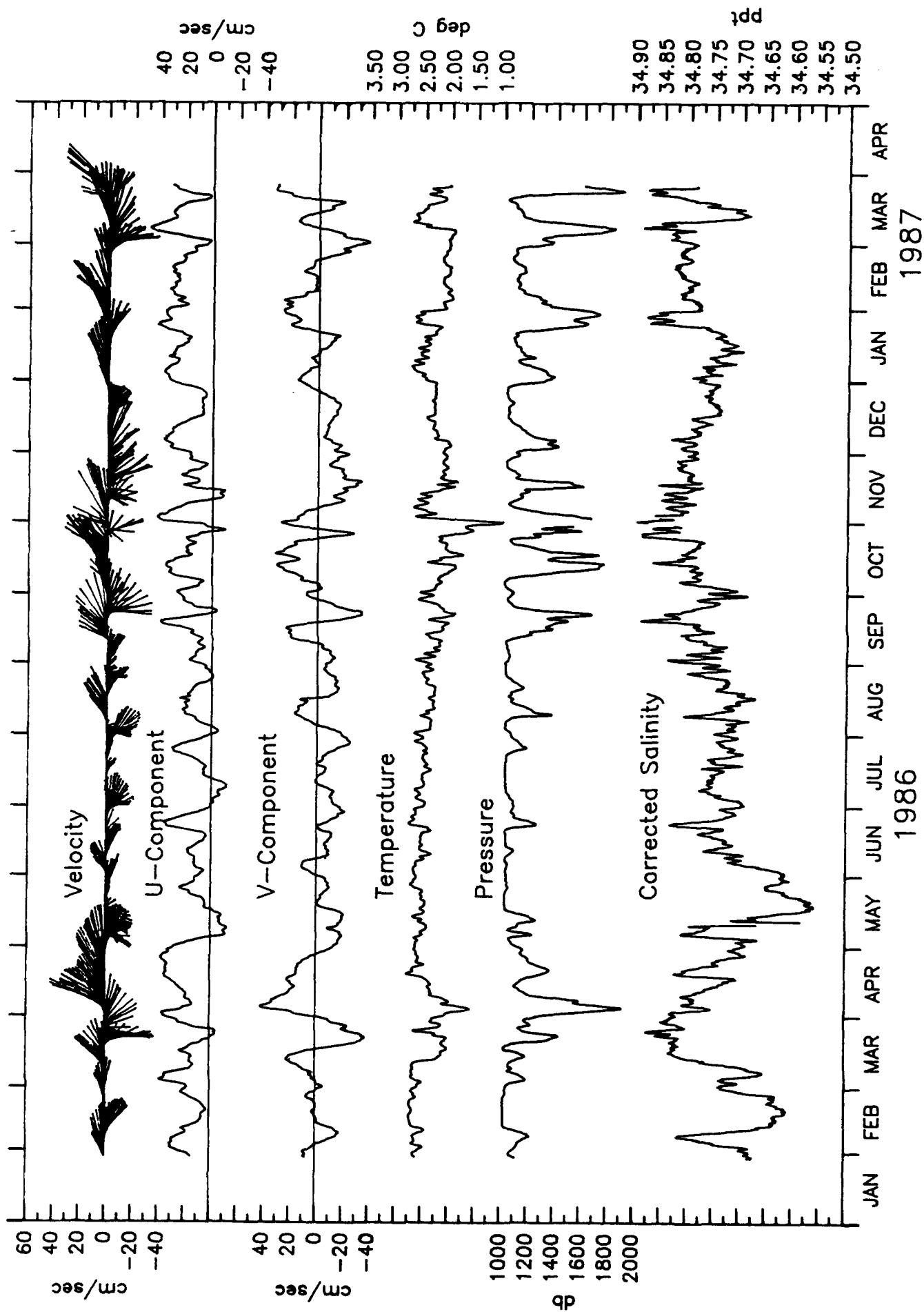
Unfiltered temperature. 4535 m at Mooring 4.



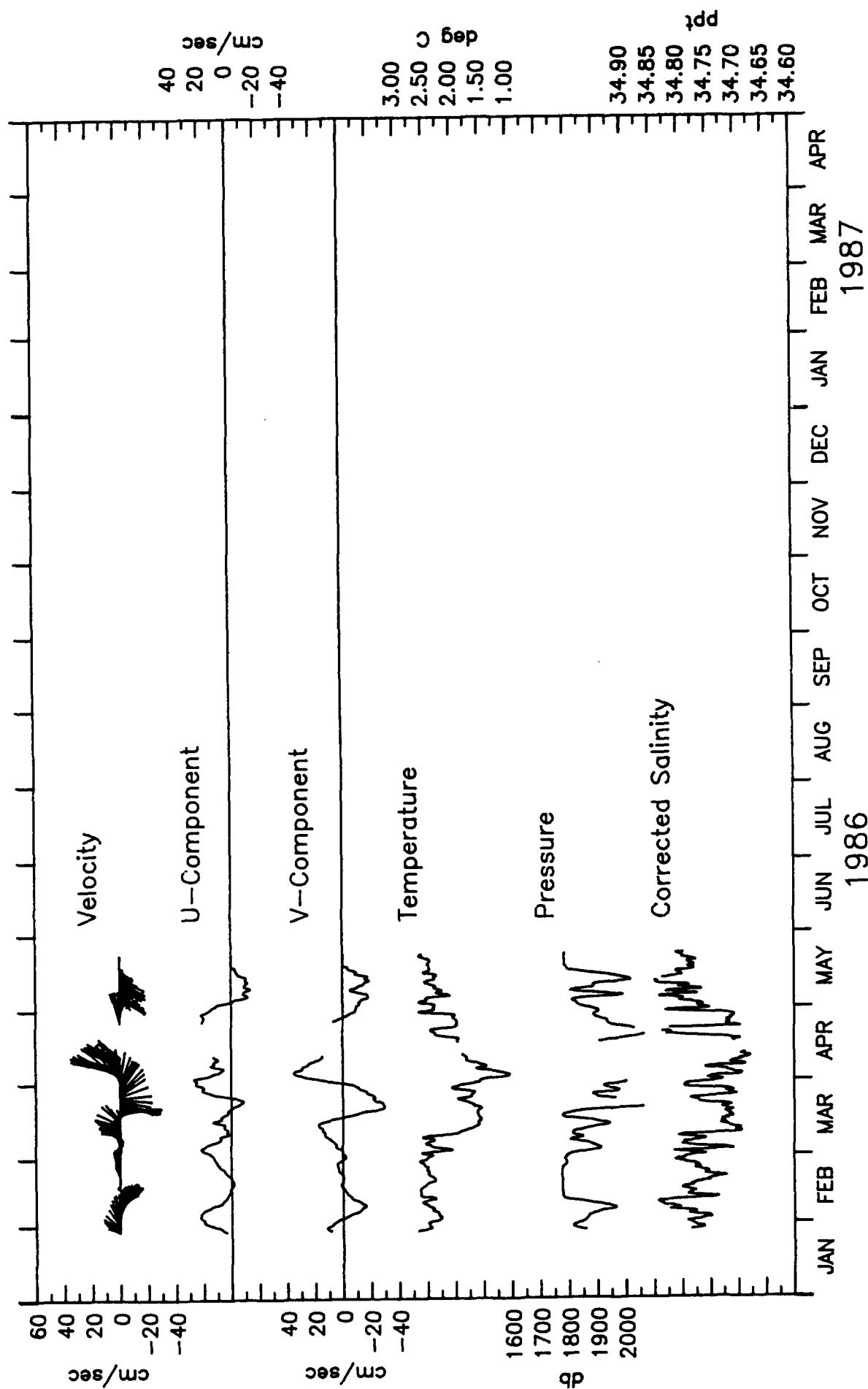
Unfiltered temperature. 5335 m at Mooring 4.



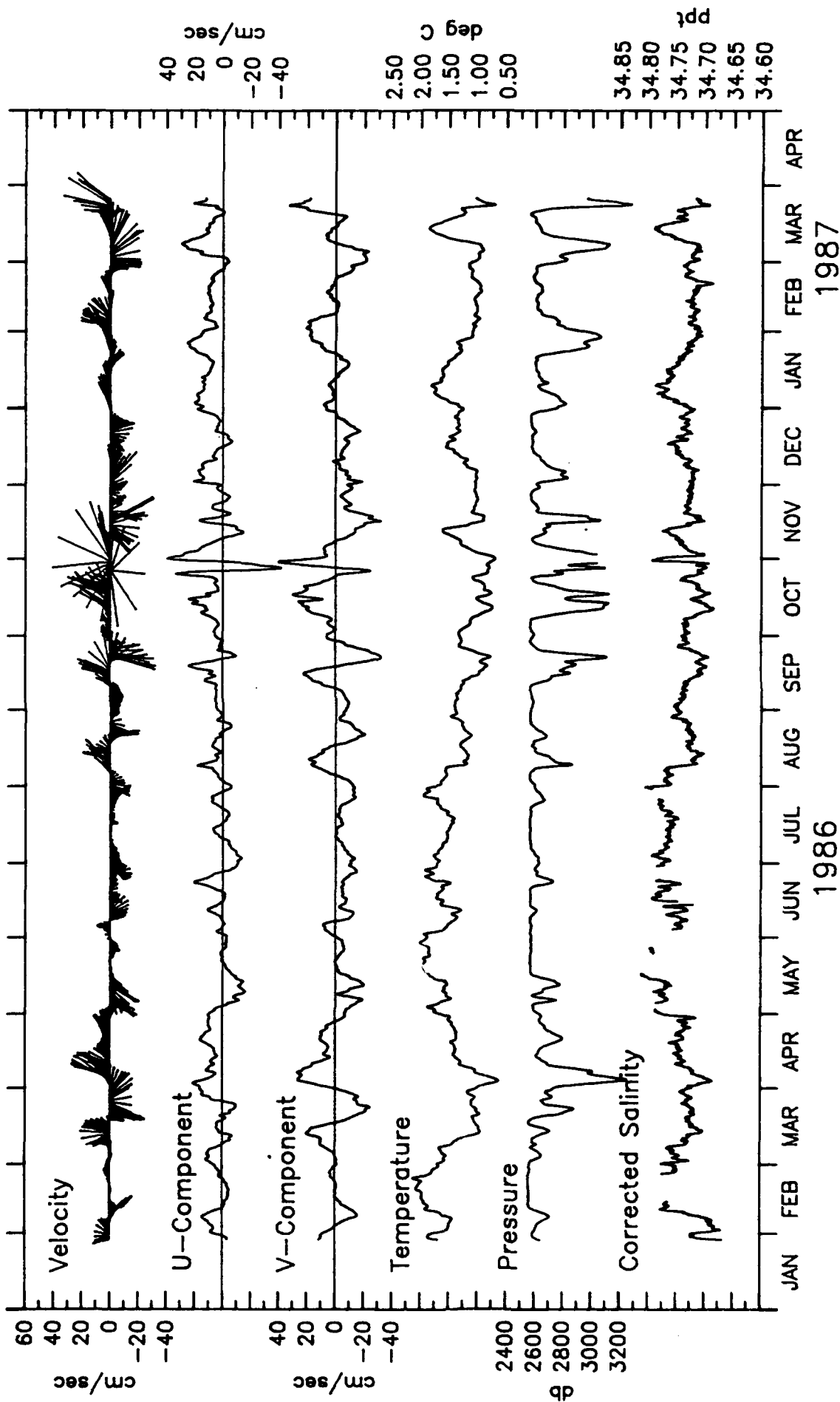
frequency, cycles per day



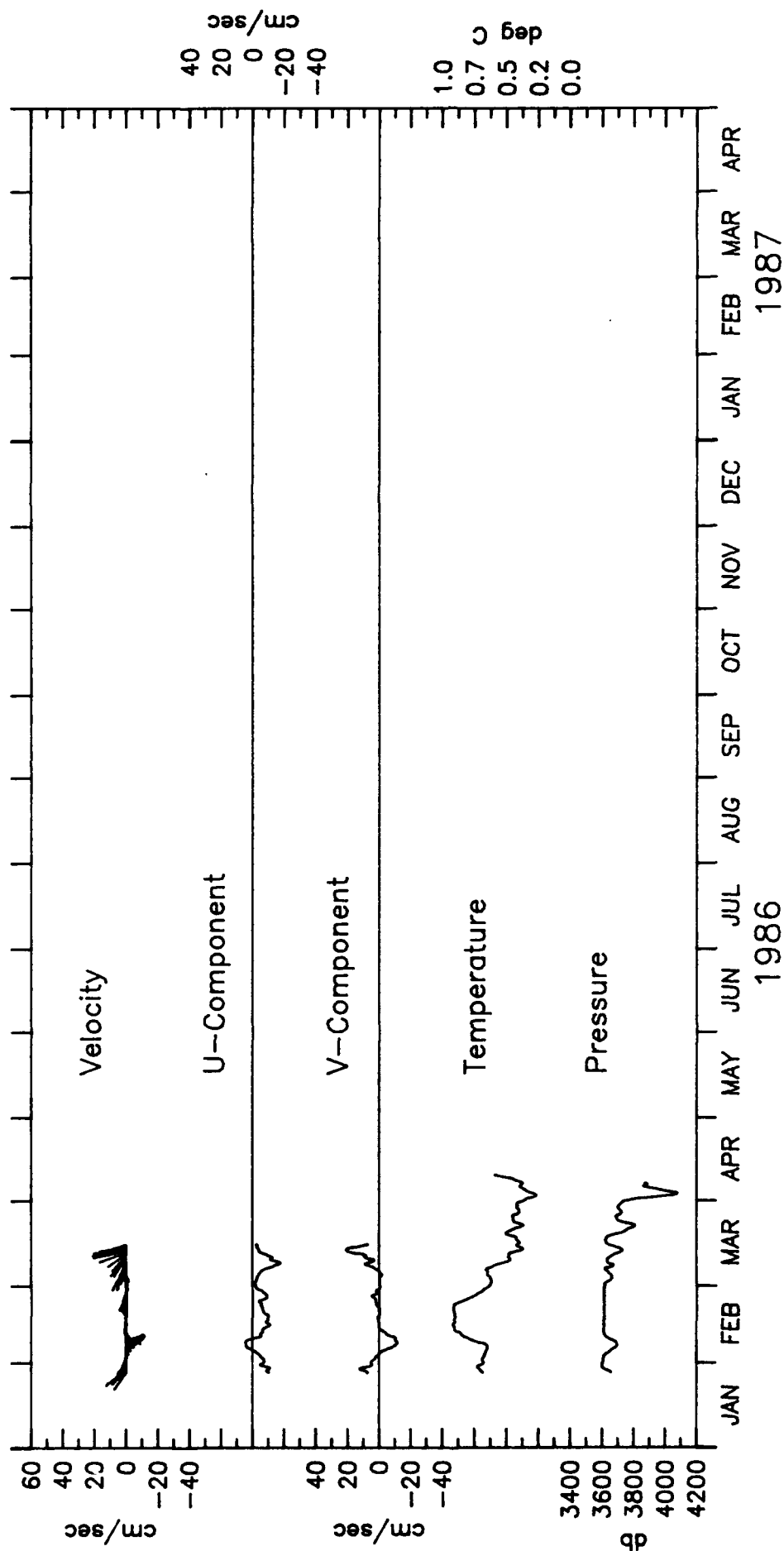
985 M AT MOORING 4.



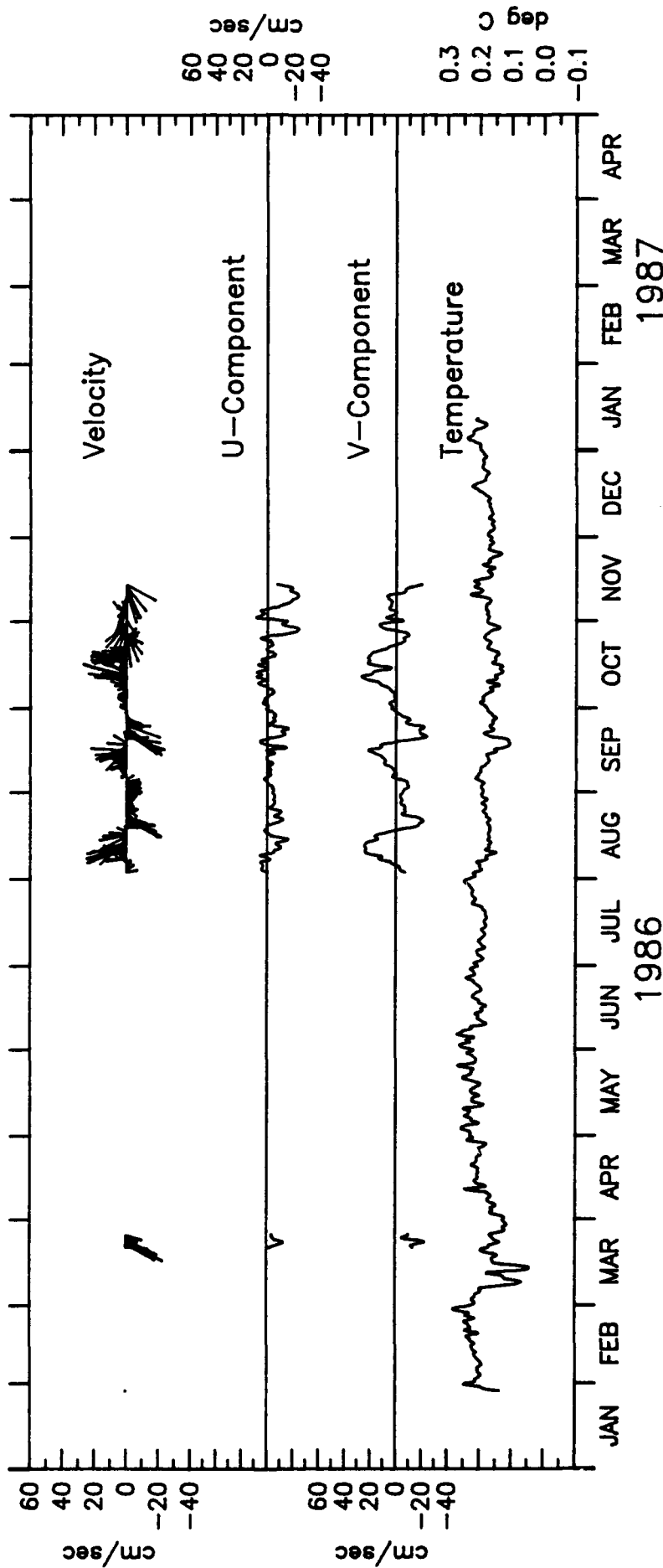
1750 M AT MOORING 4.



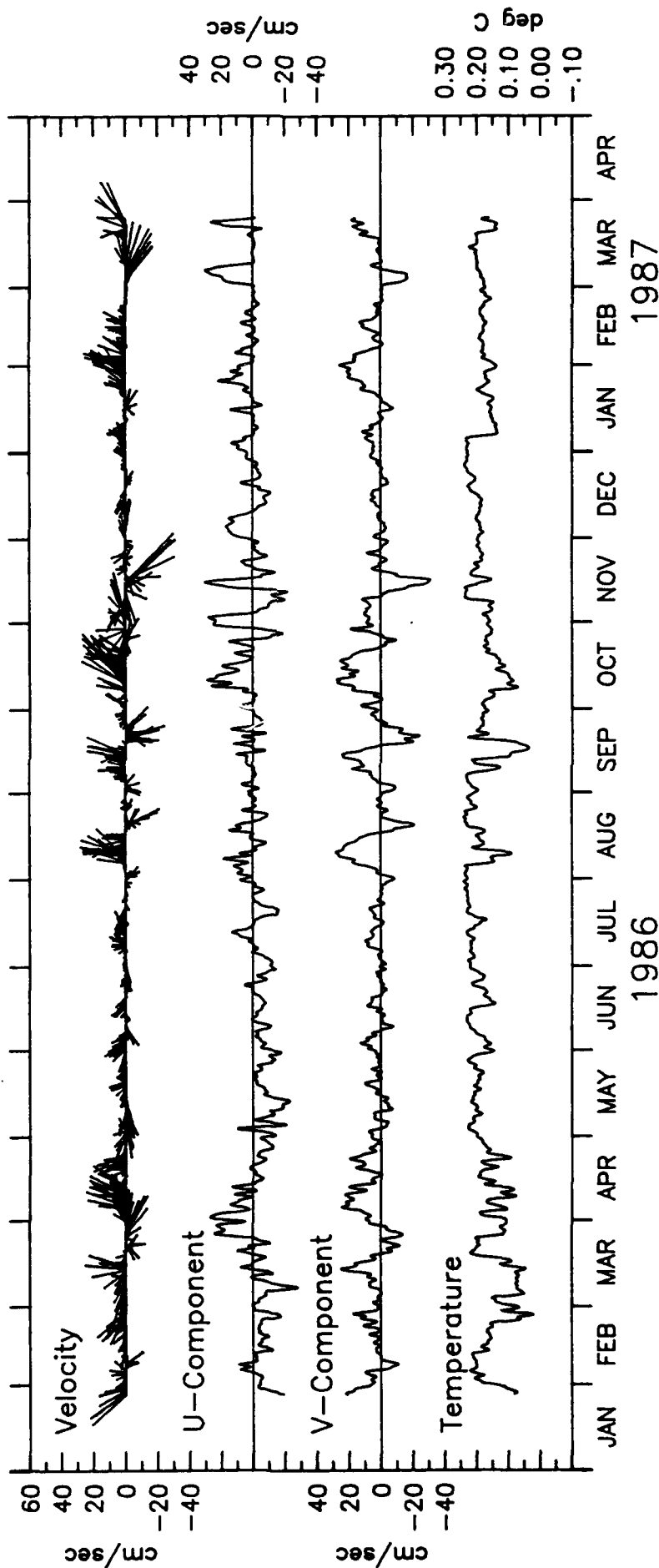
2520 M AT MOORING 4.



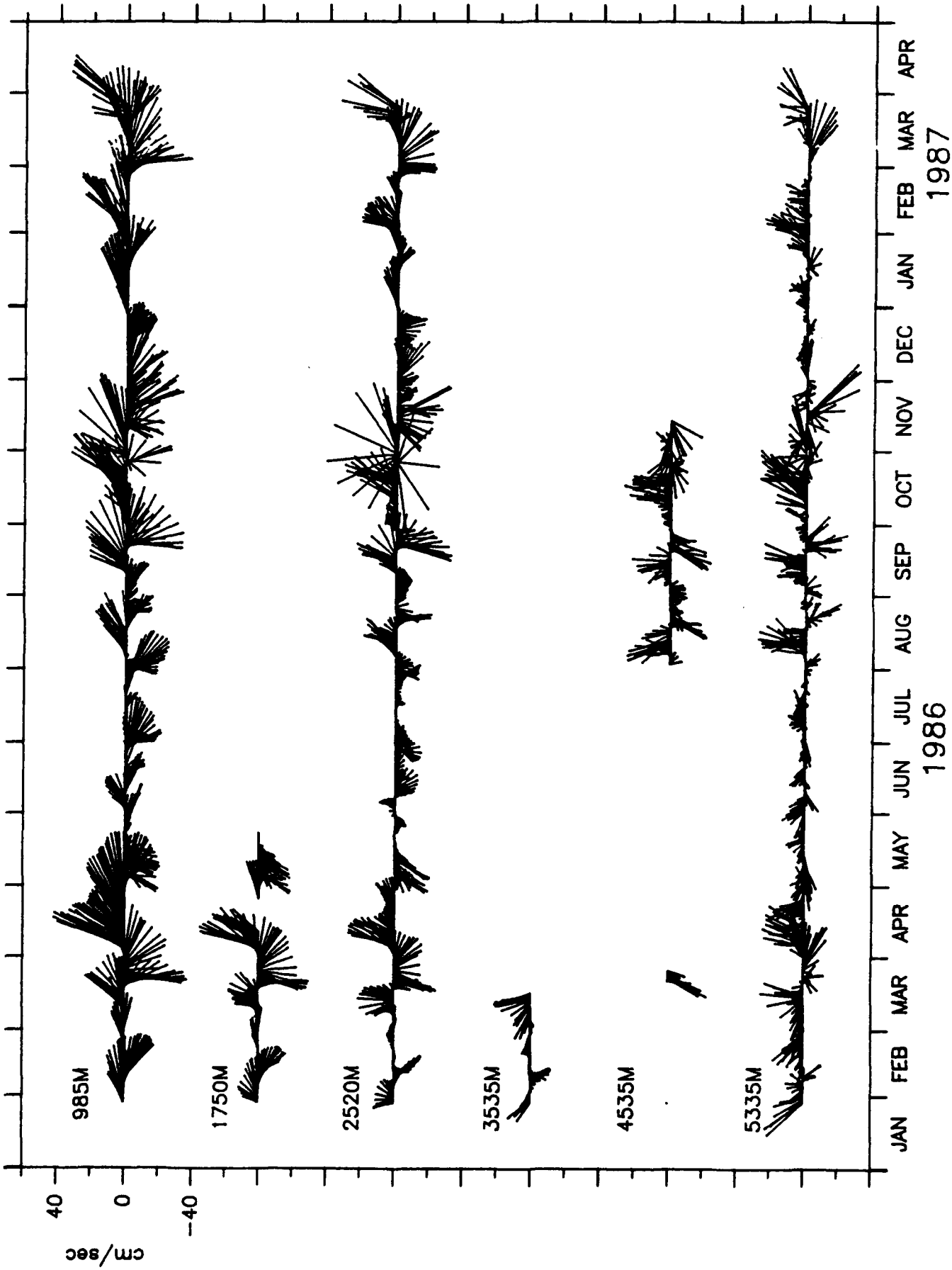
3535M AT MOORING 4.



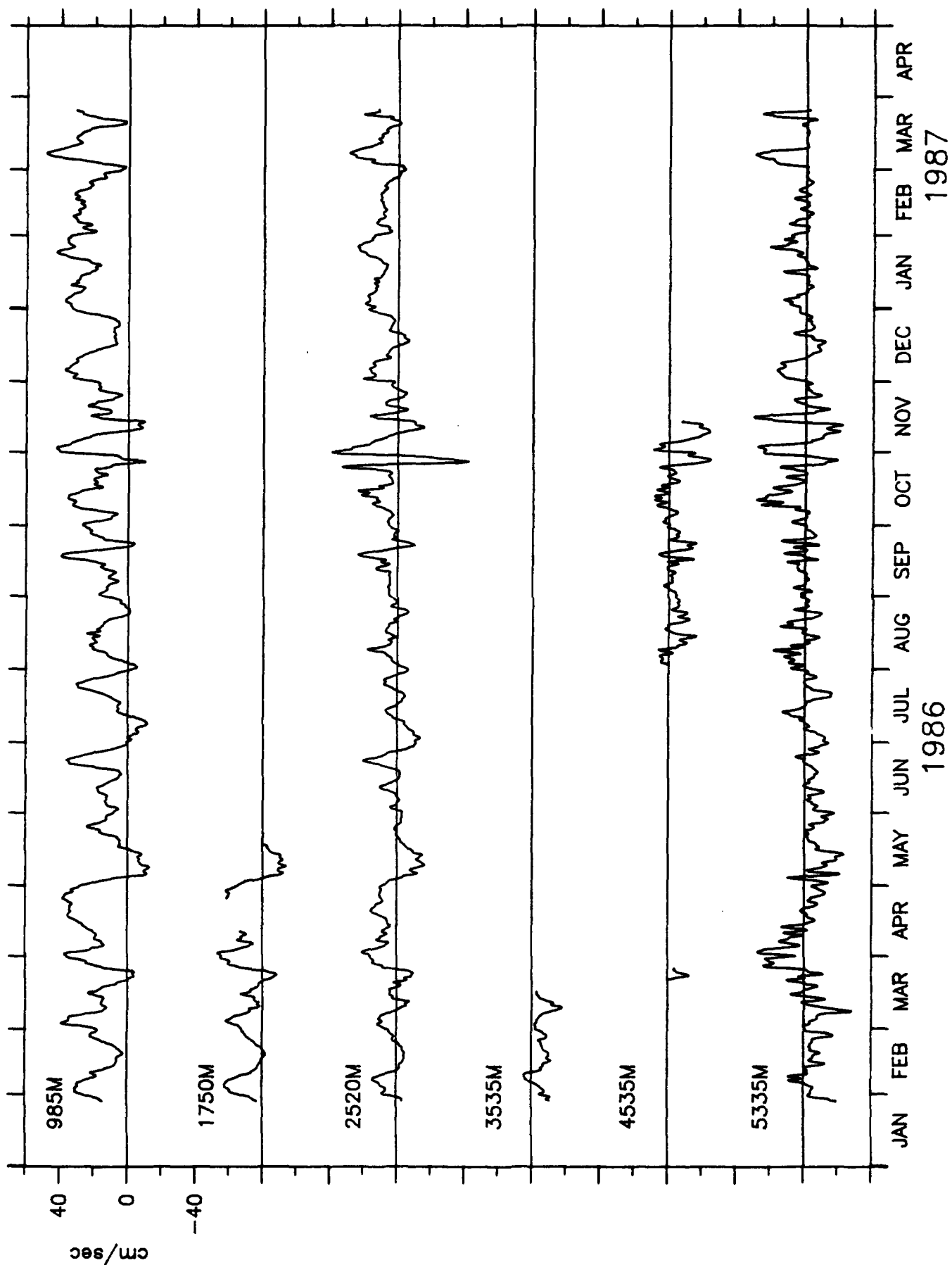
4535M AT MOORING 4.



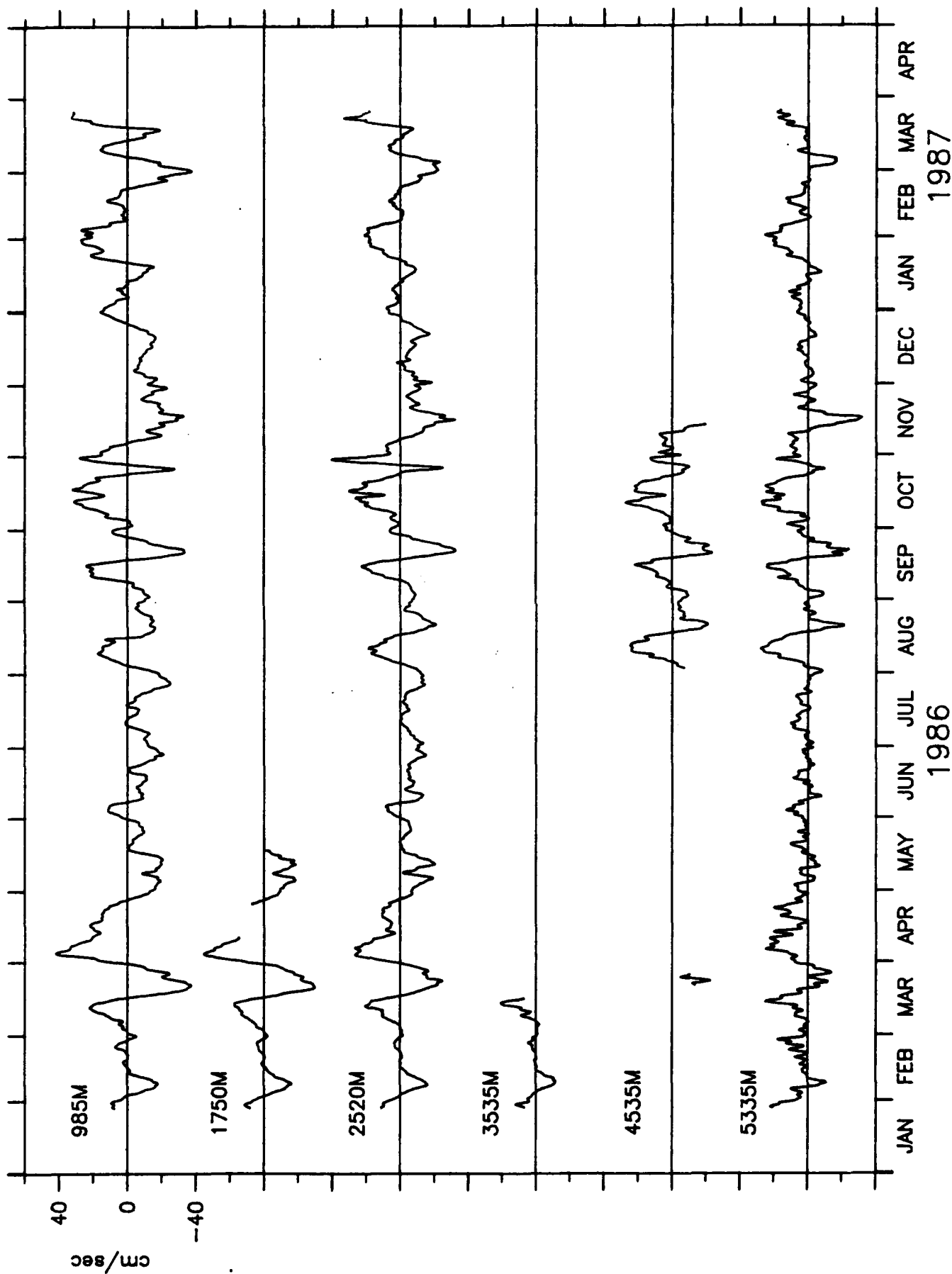
5335M AT MOORING 4.



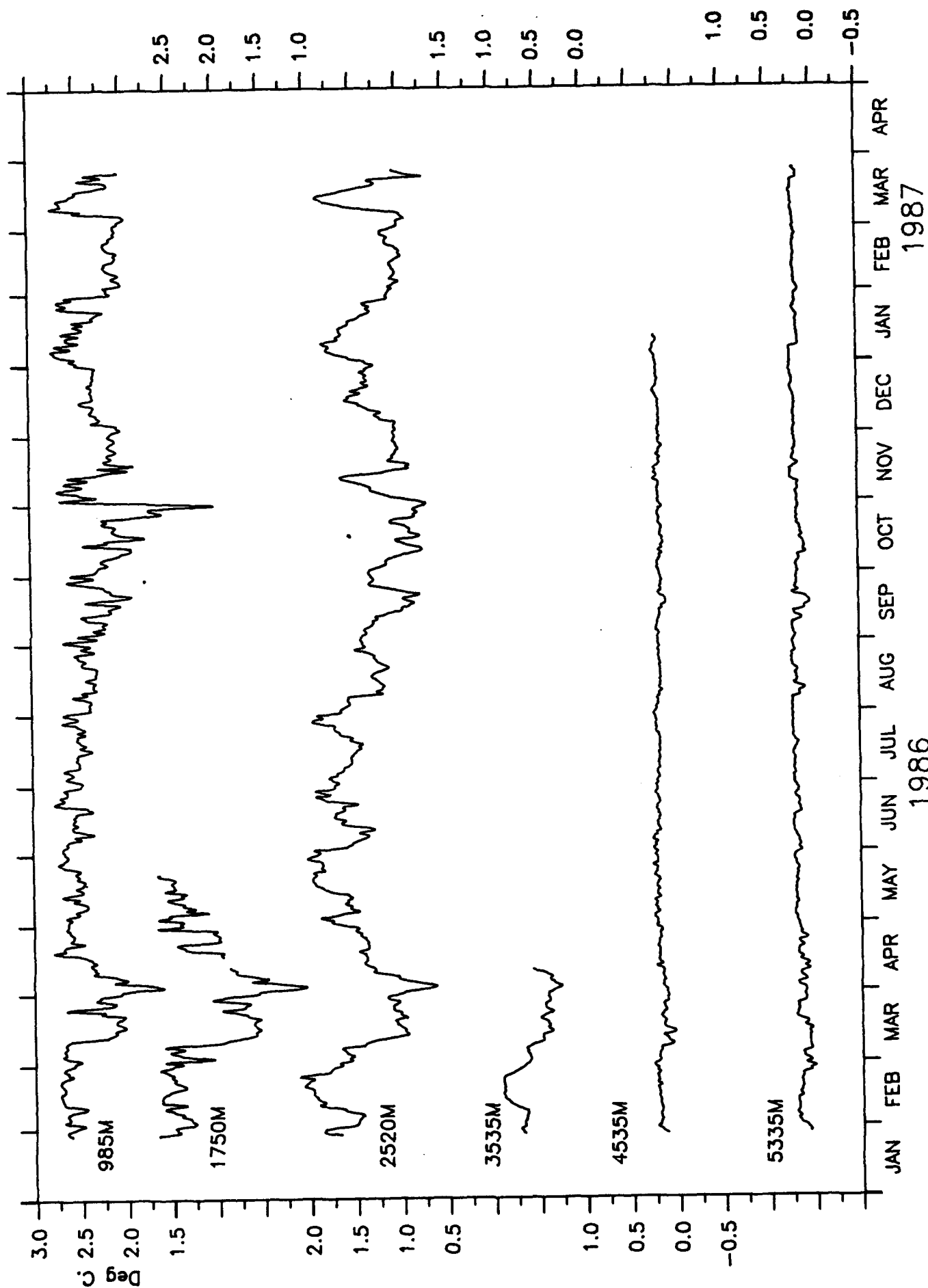
VELOCITY AT MOORING 4.



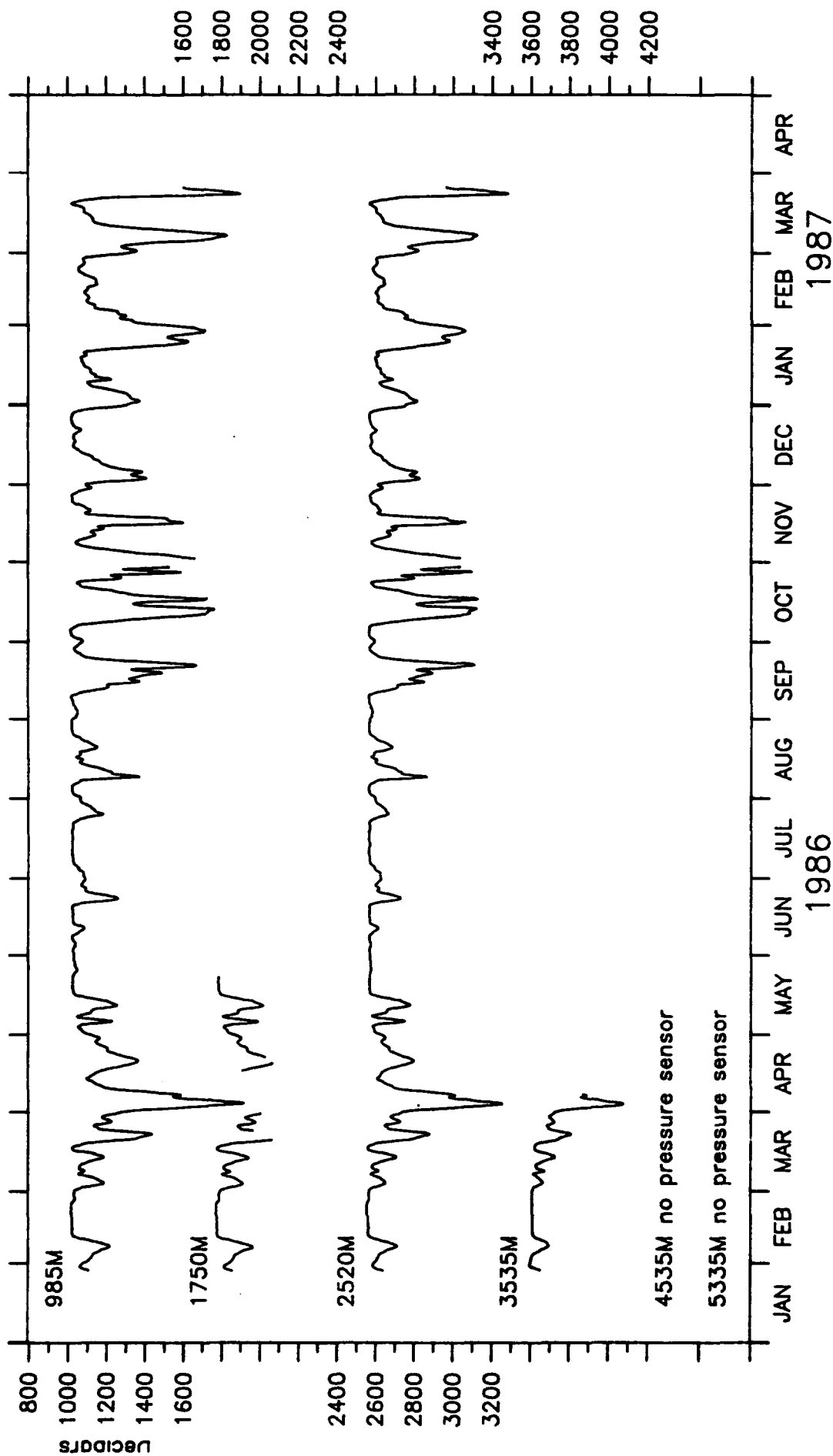
U-COMPONENT AT MOORING 4.



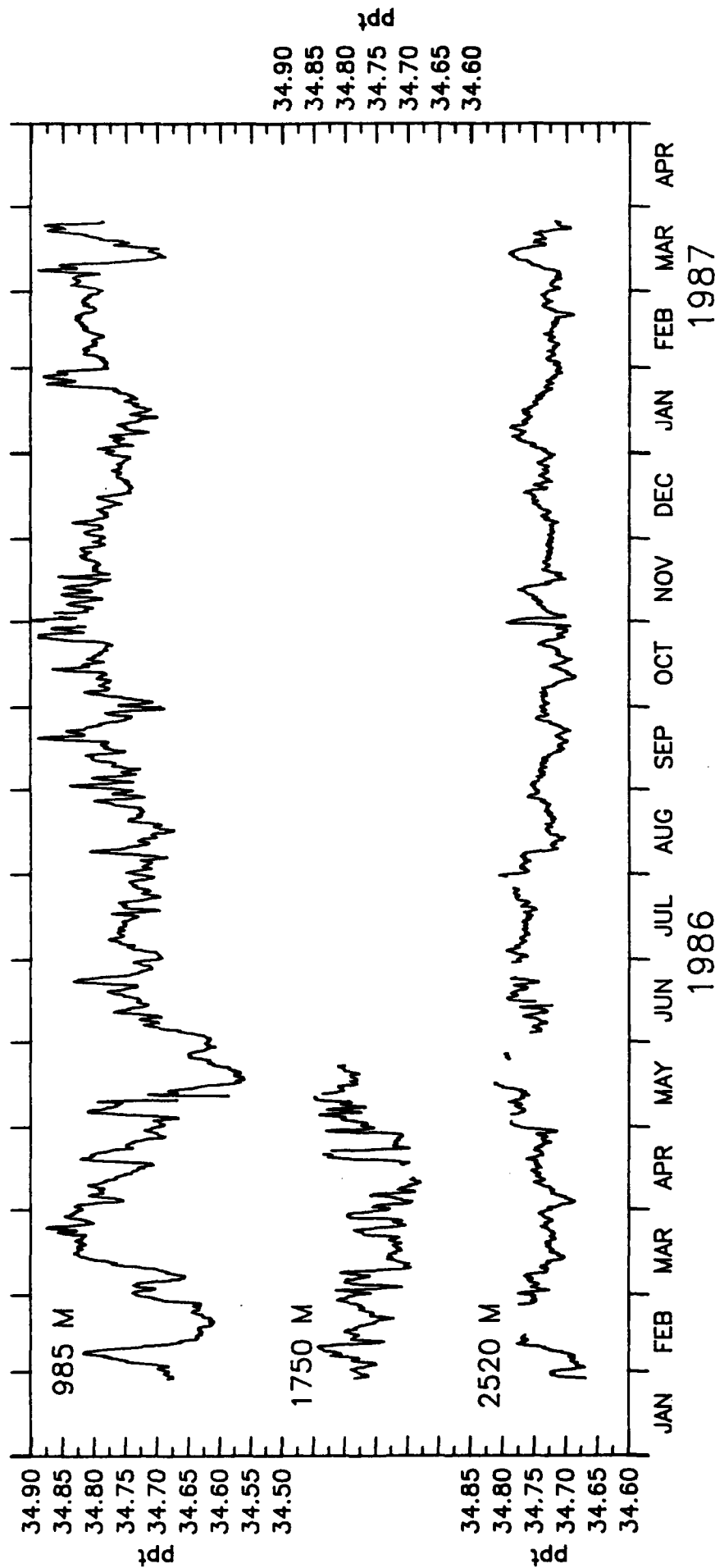
V-COMPONENT AT MOORING 4.



TEMPERATURE, MOORING 4.



PRESSURE, MOORING 4.



CORRECTED SALINITY AT MOORING 4.

MOORING 5

48°31.00'S, 41°18.61'W

1986

1987

JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR

1750 M

S
T
P

2465 M

S
T
P

3520 M

S
T
P

4480 M

S
T
P

5940 M

S
T
P

DATA RETURN FROM MOORING 5.

MOORING 5. UNFILTERED HOURLY DATA

1750M AT MOORING 5. 1800 28 JAN 86 - 1500 15 APR 87. TAPE 7164/12.

| | MEAN | SD | MIN | MAX | LENGTH | ENDS AT |
|---|---------|--------|---------|---------|--------|------------------|
| S | 23.97 | 12.00 | 0.80 | 75.00 | 10606 | (1500 15 APR 87) |
| U | 14.75 | 16.31 | -59.20 | 58.20 | 10606 | (1500 15 APR 87) |
| V | -4.32 | 14.71 | -72.80 | 68.30 | 10606 | (1500 15 APR 87) |
| T | 2.25 | 0.43 | 0.55 | 3.00 | 10606 | (1500 15 APR 87) |
| P | 1777.55 | 50 .97 | 1746.30 | 2094.00 | 878 | (0700 6 MAR 86) |

2465M AT MOORING 5. 1800 28 JAN 86 - 0700 3 APR 86. TAPE 4580/4.

| | | | | | | |
|---|---------|--------|---------|---------|------|-----------------|
| S | 11.31 | 6.63 | 0.80 | 32.80 | 1550 | (0700 3 APR 86) |
| U | 0.68 | 8.20 | -26.50 | 25.60 | 1550 | (0700 3 APR 86) |
| V | -6.17 | 8.12 | -29.50 | 25.10 | 1550 | (0700 3 APR 86) |
| T | 1.83 | 0.39 | 1.00 | 2.48 | 1550 | (0700 3 APR 86) |
| P | 2561.03 | 110.66 | 2490.30 | 3033.80 | 1550 | (0700 3 APR 86) |

3520M AT MOORING 5. 1900 28 JAN 86 - 1500 15 APR 87. TAPE 1244/38.

| | | | | | | |
|---|---------|--------|---------|---------|-------|------------------|
| S | 15.41 | 9.09 | 0.70 | 53.80 | 10605 | (1500 15 APR 87) |
| U | 4.29 | 13.23 | -45.30 | 49.80 | 10605 | (1500 15 APR 87) |
| V | -4.78 | 10.19 | -45.50 | 35.20 | 10605 | (1500 15 APR 87) |
| T | 0.76 | 0.22 | 0.19 | 1.24 | 10605 | (1500 15 APR 87) |
| P | 3747.67 | 244.02 | 3523.00 | 4872.00 | 10605 | (1500 15 APR 87) |

4480M AT MOORING 5. 1800 28 JAN 86 - 1300 3 OCT 86. TAPE 1245/43.

| | | | | | | |
|---|---------|--------|---------|---------|------|------------------|
| S | 14.58 | 8.82 | 0.70 | 53.10 | 5487 | (1000 14 SEP 86) |
| U | -4.15 | 10.77 | -51.50 | 30.30 | 5487 | (1000 14 SEP 86) |
| V | -6.94 | 10.44 | -34.00 | 27.40 | 5487 | (1000 14 SEP 86) |
| T | 0.32 | 0.04 | 0.21 | 0.46 | 5947 | (1300 3 OCT 86) |
| P | 4669.07 | 132.65 | 4535.00 | 5390.00 | 5947 | (1300 3 OCT 86) |

5940M AT MOORING 5. 1800 28 JAN 86 - 1500 15 APR 87. TAPE 4416/34.

| | | | | | | |
|---|-------|-------|--------|-------|-------|------------------|
| S | 15.65 | 9.74 | 0.80 | 57.60 | 10606 | (1500 15 APR 87) |
| U | 5.29 | 12.06 | -41.50 | 55.60 | 10606 | (1500 15 APR 87) |
| V | -6.07 | 11.38 | -46.80 | 32.30 | 10606 | (1500 15 APR 87) |
| T | 0.28 | 0.04 | 0.16 | 0.36 | 10606 | (1500 15 APR 87) |

(1750 M) PRESSURE SENSOR OVERRANGED, RECORD TERMINATED EARLY

(2465 M) INSTRUMENT FLOODED, SHORT RECORD.

(4480 M) LOW BATTERY CAUSED PREMATURE INSTRUMENT FAILURE

(Speed, u, and v are given in cm/sec, Temperature in °C, Pressure in DB.)

MOORING 5. LLP FILTERED 6-HOURLY DATA

1750M AT MOORING 5. 1800 29 JAN 86 - 1200 14 APR 87. TAPE 7164/12.

| | MEAN | SD | MIN | MAX | LENGTH | ENDS AT |
|---|---------|-------|---------|---------|--------|------------------|
| U | 14.78 | 15.95 | -52.17 | 48.97 | 1760 | (1200 14 APR 87) |
| V | -4.32 | 14.31 | -59.12 | 66.26 | 1760 | (1200 14 APR 87) |
| T | 2.25 | 0.43 | 0.56 | 2.98 | 1760 | (1200 14 APR 87) |
| P | 1771.59 | 32.95 | 1748.36 | 1936.62 | 139 | (0600 5 MAY 86) |

2465M AT MOORING 5. 1800 29 JAN 86 - 0600 2 APR 86. TAPE 4580/4.

| | | | | | | |
|---|---------|--------|---------|---------|-----|-----------------|
| U | 0.71 | 7.83 | -19.24 | 21.05 | 251 | (0600 2 APR 86) |
| V | -6.62 | 6.94 | -22.70 | 17.44 | 251 | (0600 2 APR 86) |
| T | 1.83 | 0.39 | 1.09 | 2.42 | 251 | (0600 2 APR 86) |
| P | 2558.77 | 107.62 | 2492.39 | 3039.86 | 251 | (0600 2 APR 86) |

3520M AT MOORING 5. 0000 30 JAN 86 - 1200 14 APR 87. TAPE 1244/38.

| | | | | | | |
|---|---------|--------|---------|---------|------|------------------|
| U | 4.31 | 12.85 | -37.53 | 42.54 | 1759 | (1200 14 APR 87) |
| V | -4.78 | 9.65 | -32.95 | 28.09 | 1759 | (1200 14 APR 87) |
| T | 0.76 | 0.21 | 0.23 | 1.19 | 1759 | (1200 14 APR 87) |
| P | 3748.55 | 243.62 | 3528.31 | 4868.73 | 1759 | (1200 14 APR 87) |

4480M AT MOORING 5. 0000 30 JAN 86 - 1200 2 OCT 86. TAPE 1245/43.

| | | | | | | |
|---|---------|--------|---------|---------|-----|------------------|
| U | -4.20 | 10.41 | -45.70 | 26.30 | 906 | (0600 13 SEP 86) |
| V | -7.08 | 10.01 | -31.71 | 25.16 | 906 | (0600 13 SEP 86) |
| T | 0.32 | 0.04 | 0.23 | 0.43 | 983 | (1200 2 OCT 86) |
| P | 4669.58 | 132.46 | 4534.68 | 5371.45 | 983 | (1200 2 OCT 86) |

5940M AT MOORING 5. 1800 29 JAN 86 - 1200 14 APR 87. TAPE 4416/34.

| | | | | | | |
|---|-------|-------|--------|-------|------|------------------|
| U | 5.32 | 11.61 | -27.96 | 42.14 | 1760 | (1200 14 APR 87) |
| V | -6.09 | 10.93 | -44.68 | 26.92 | 1760 | (1200 14 APR 87) |
| T | 0.28 | 0.04 | 0.16 | 0.34 | 1760 | (1200 14 APR 87) |

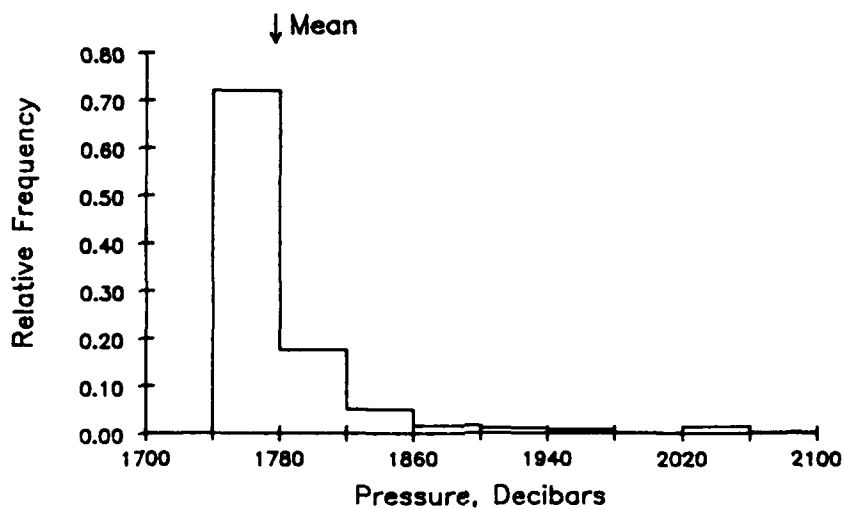
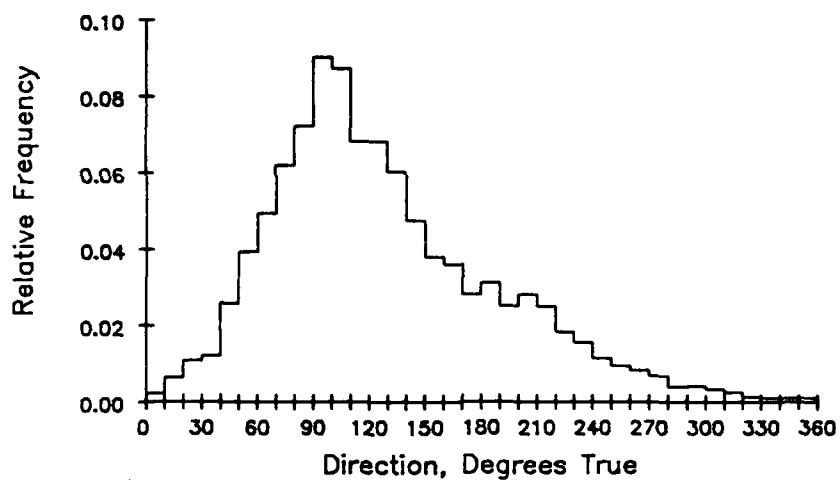
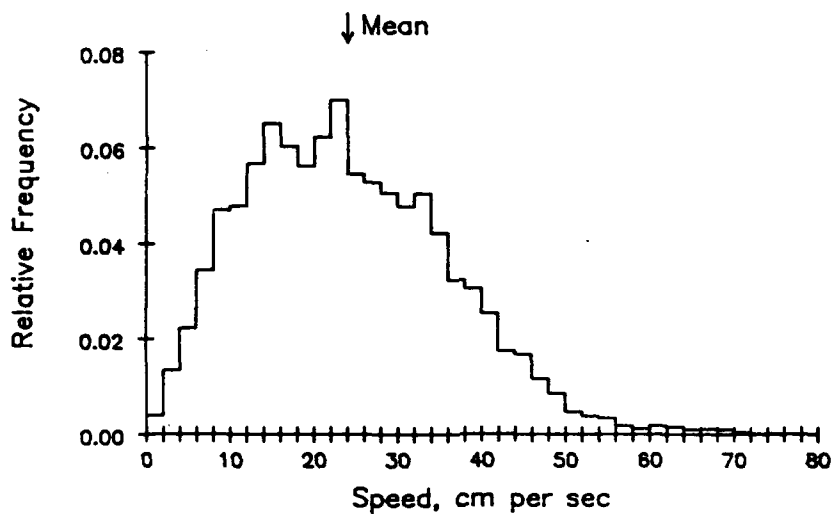
(1750 M) PRESSURE SENSOR OVERRANGED, RECORD TERRMINATED EARLY.

(2465 M) INSTRUMENT FLOODED, SHORT RECORD

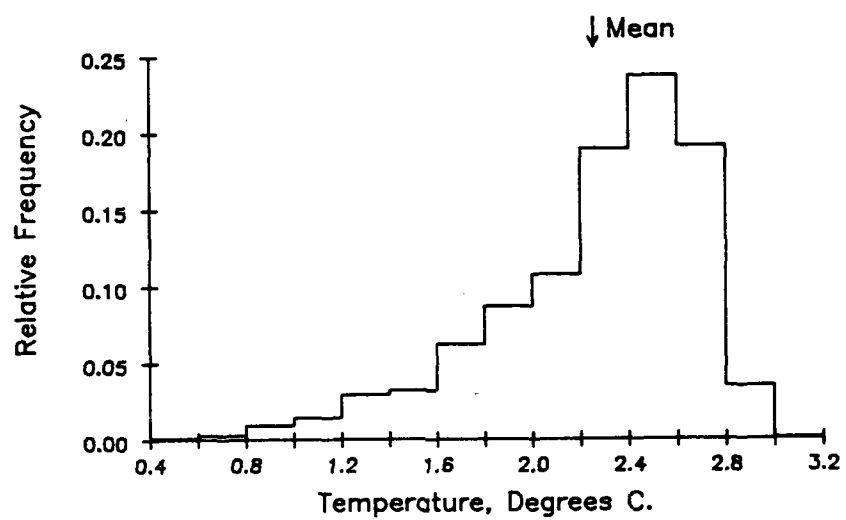
(4480 M) LOW BATTERY CAUSED PREMATURE INSTRUMENT FAILURE.

(Speed, u, and v are given in cm/sec, Temperature in °C, Pressure in DB, and Corrected Salinity in ppt.)

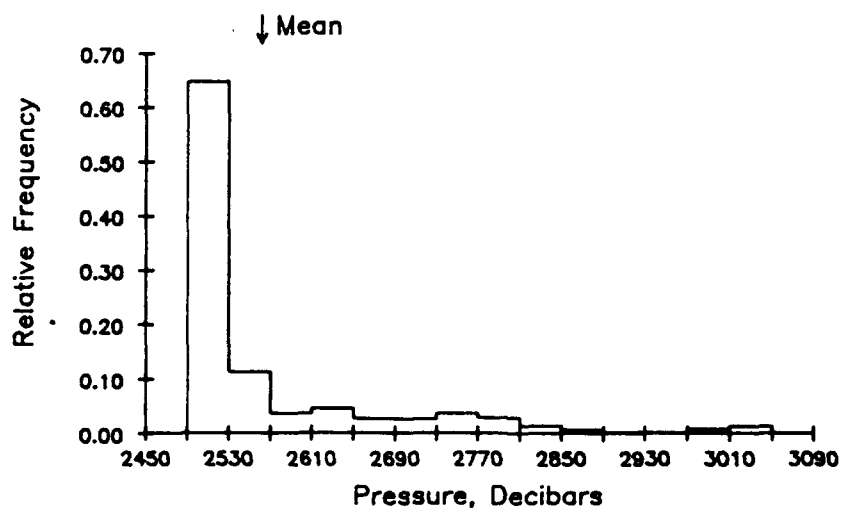
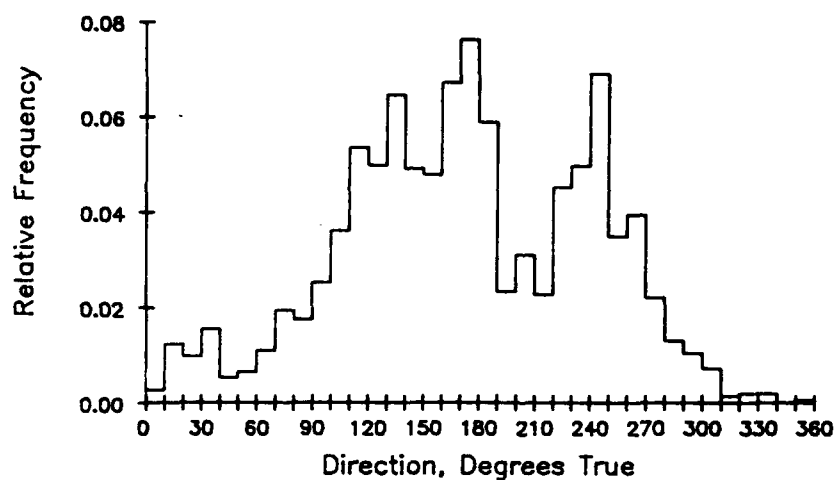
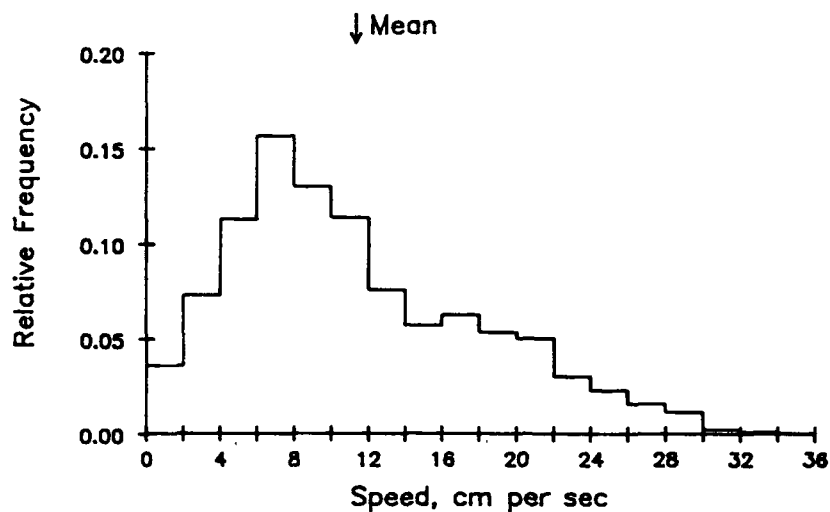
1750 METERS AT MOORING 5. TAPE 7164/12.



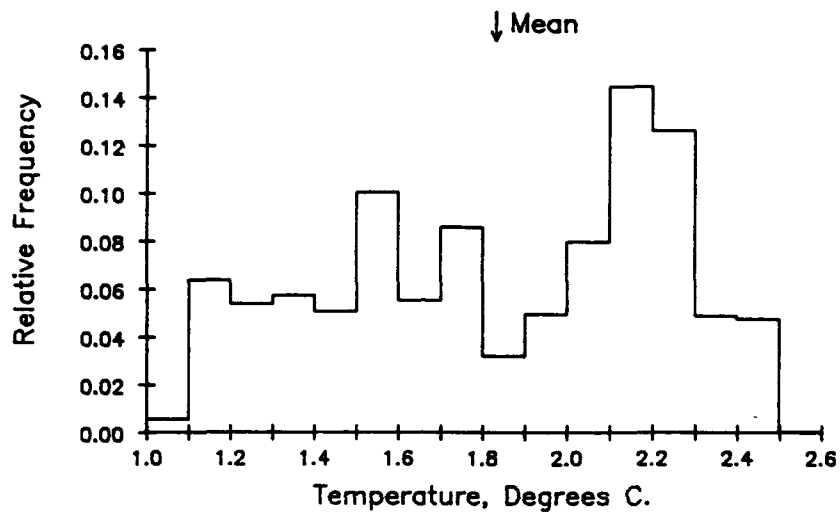
1750 METERS AT MOORING 5. TAPE 7164/12.



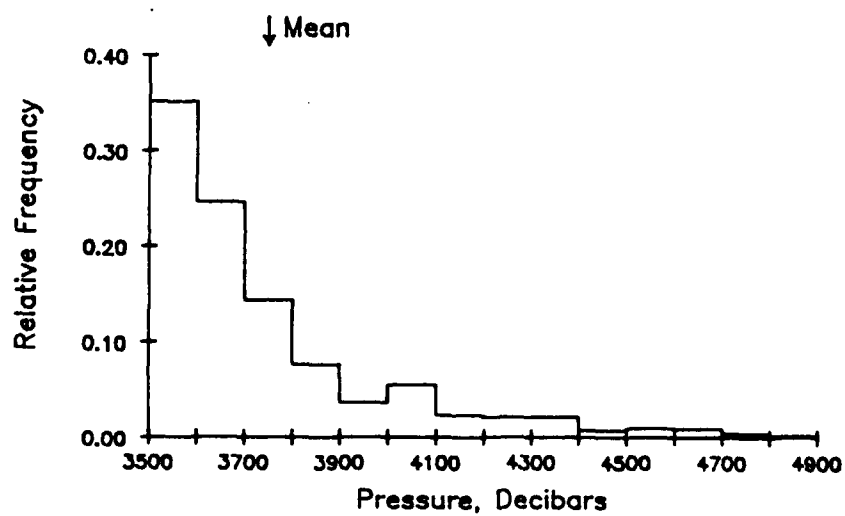
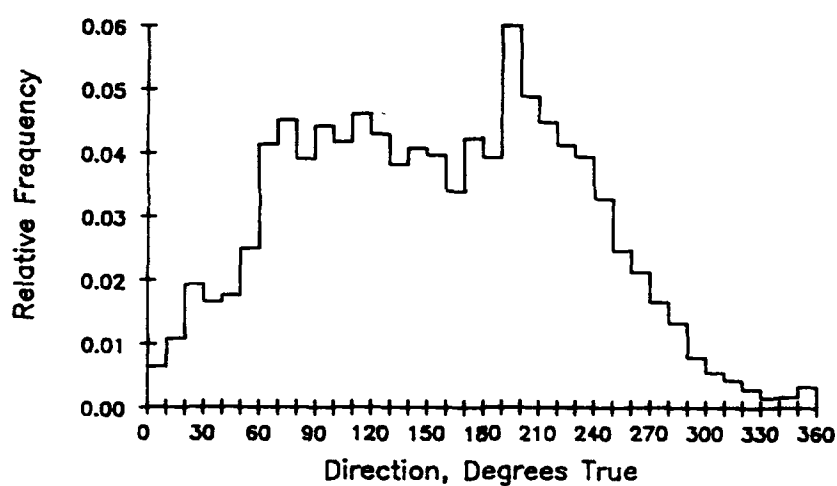
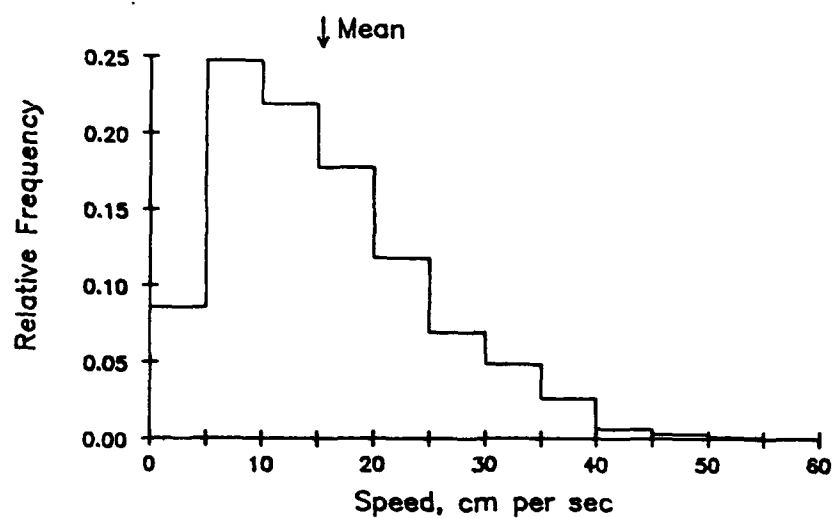
2465 METERS AT MOORING 5. TAPE 4580/4.



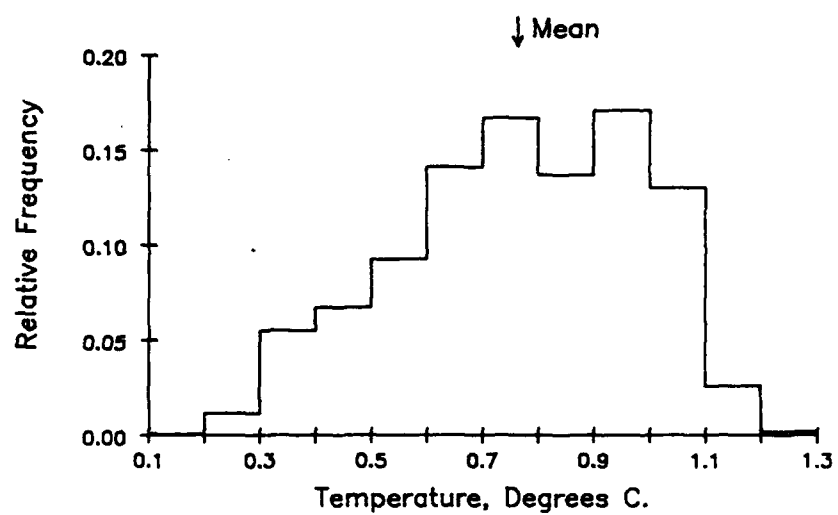
2465 METERS AT MOORING 5. TAPE 4580/4.



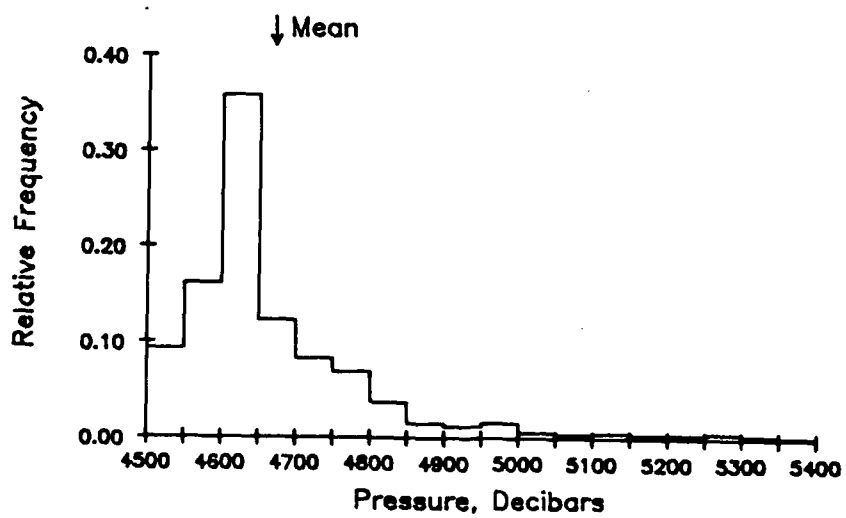
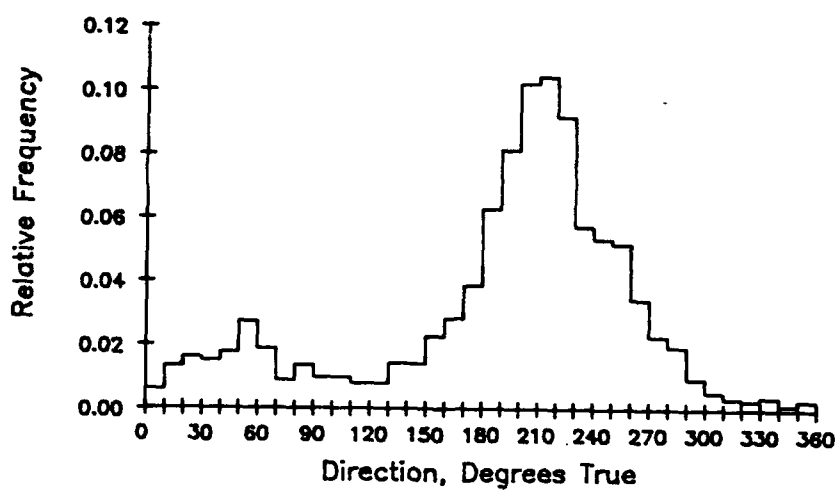
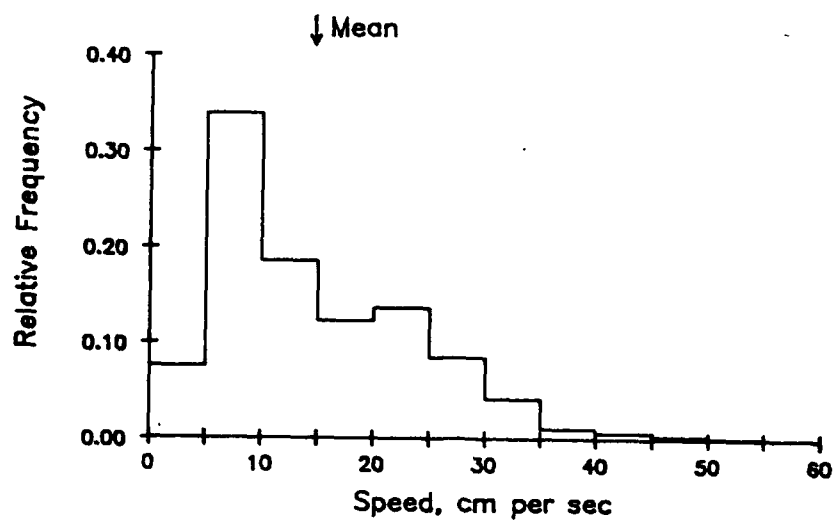
3520 METERS AT MOORING 5. TAPE 1244/38



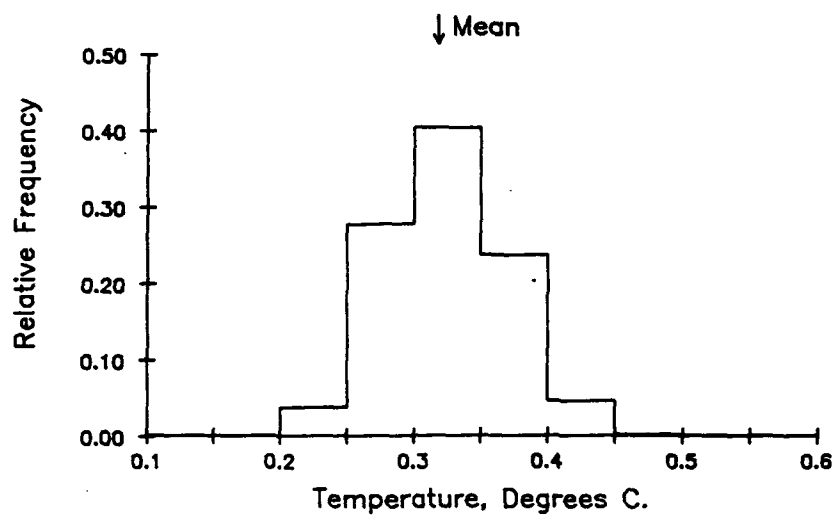
3520 METERS AT MOORING 5. TAPE 1244/38.



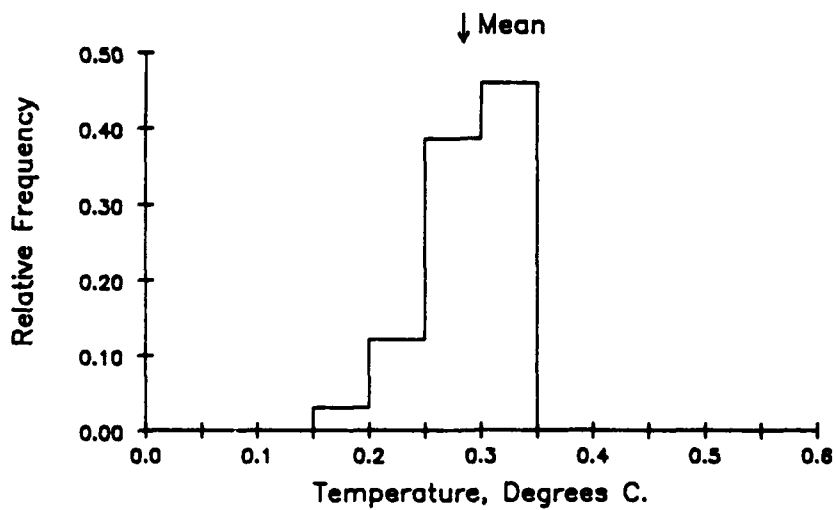
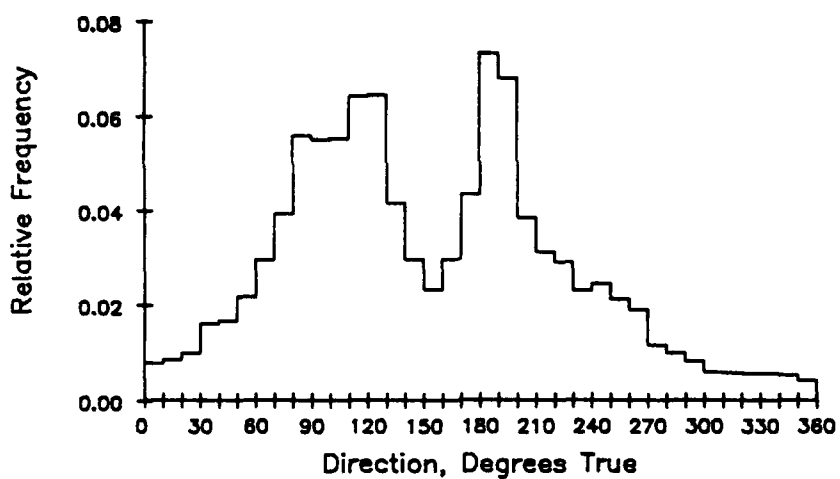
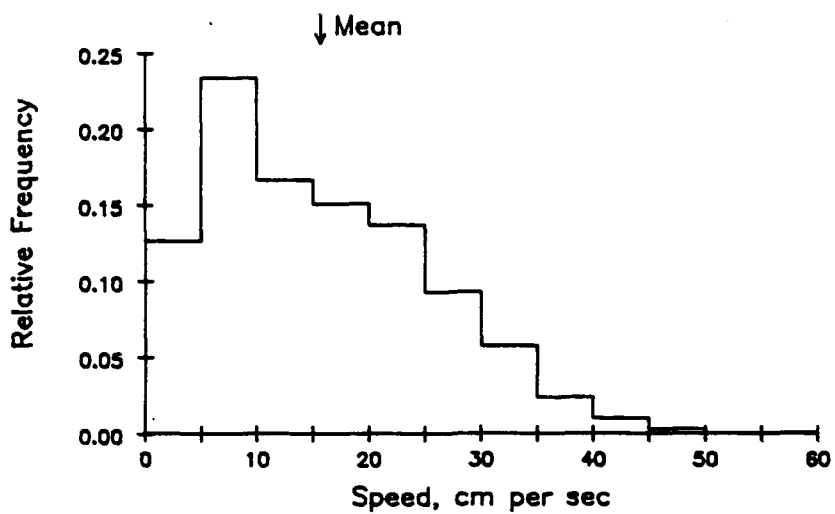
4480 METERS AT MOORING 5. TAPE 1245/43.



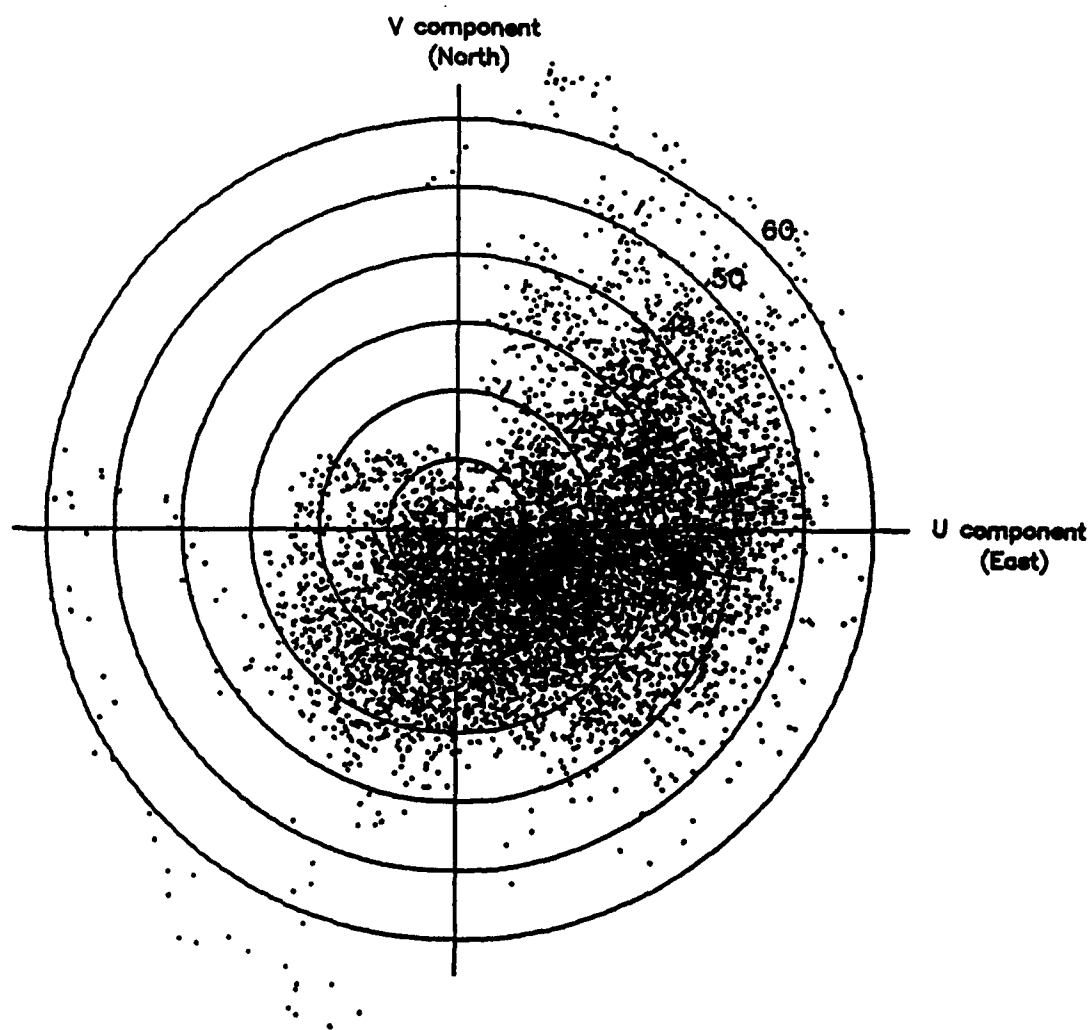
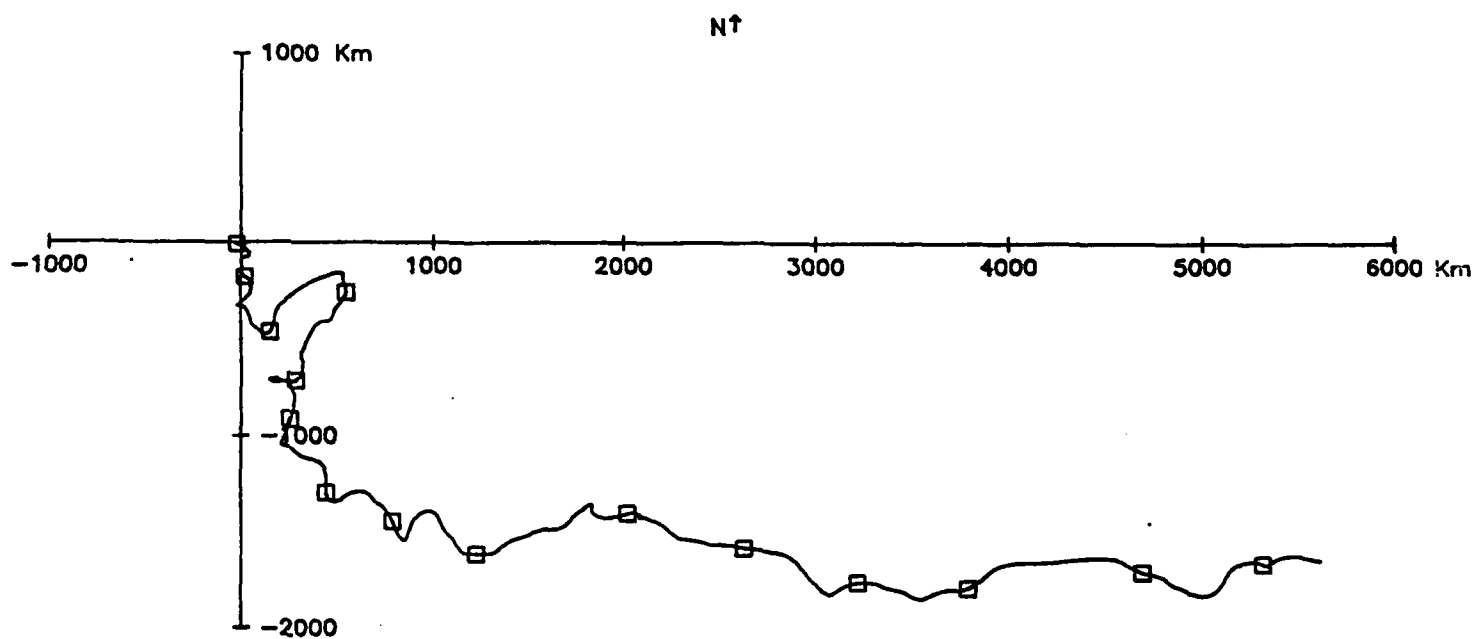
4480 METERS AT MOORING 5. TAPE 1245/43.



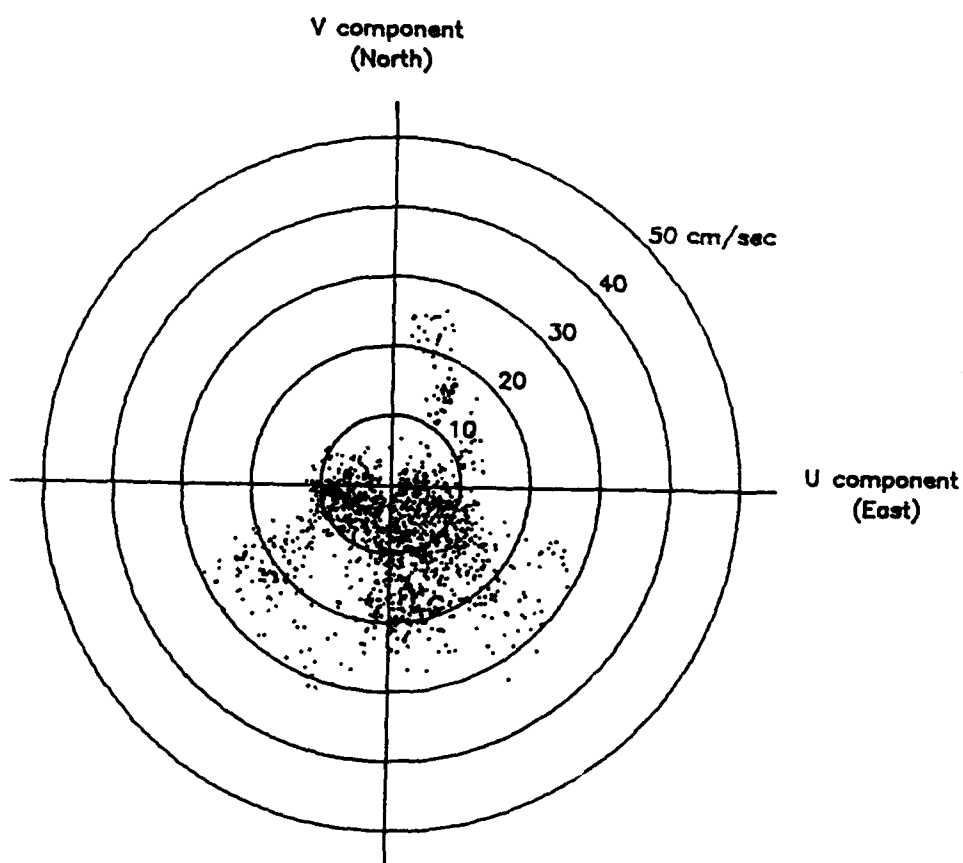
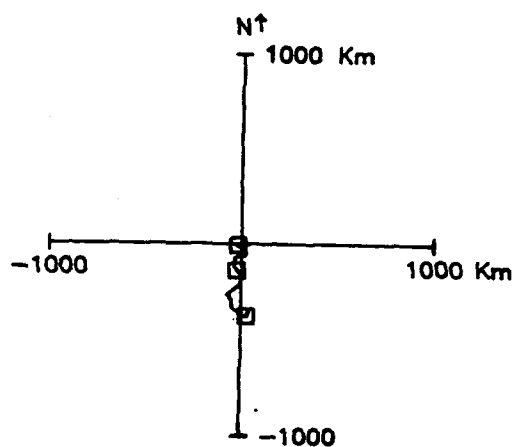
5940 METERS AT MOORING 5. TAPE 4416/34.



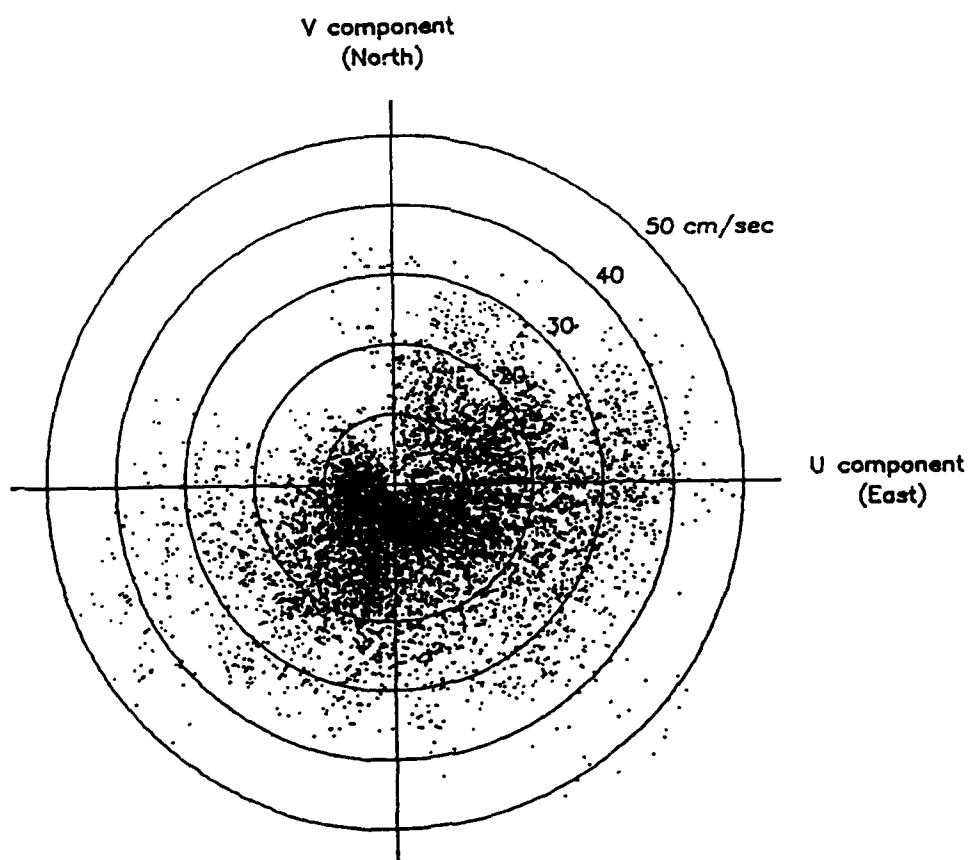
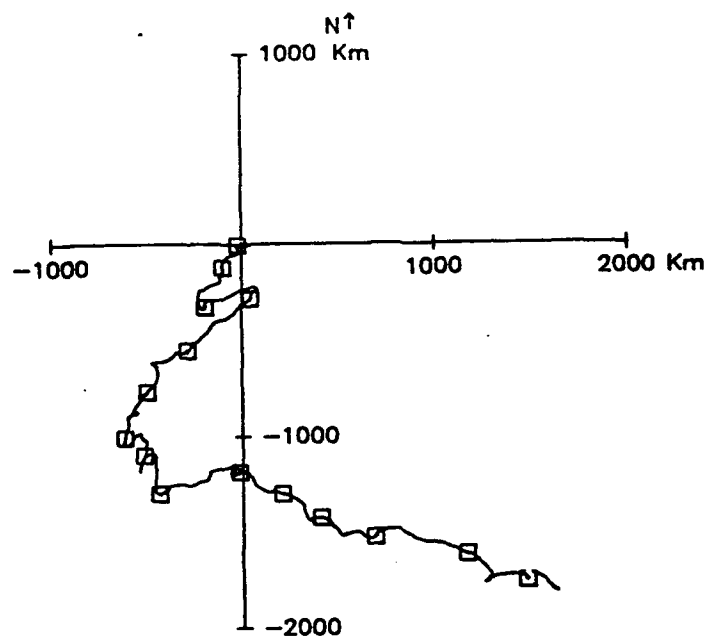
1750M AT MOORING 5. 28 JAN 86 - 15 APR 87. TAPE 7164/12.



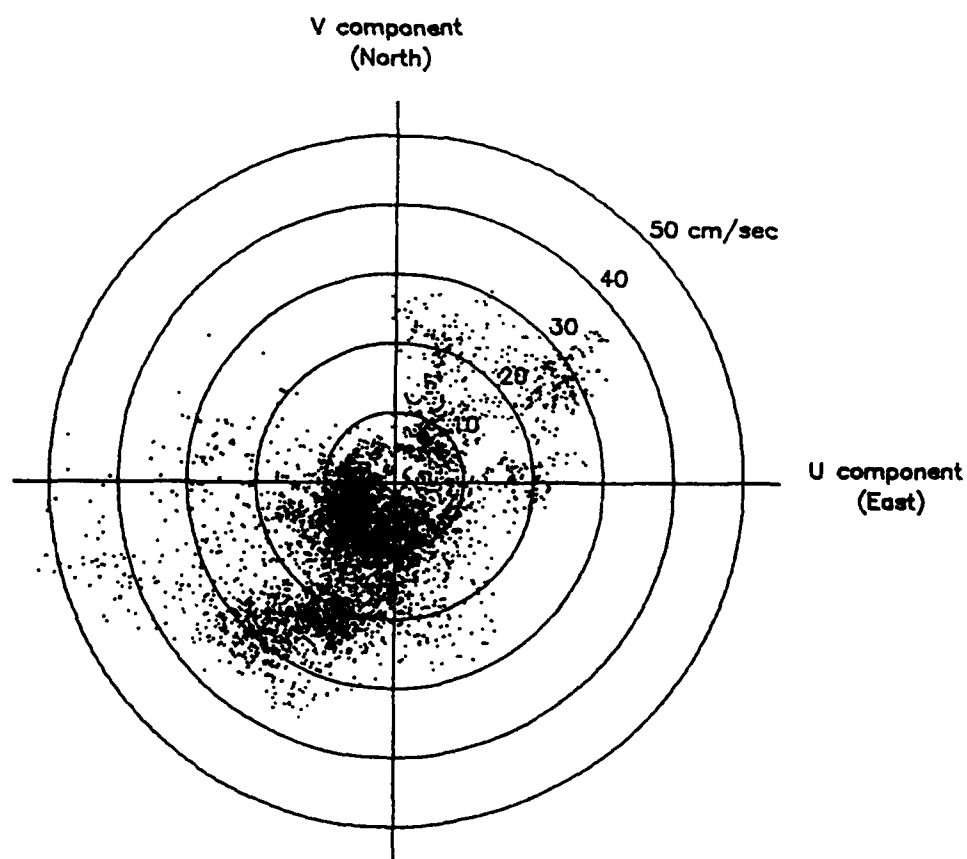
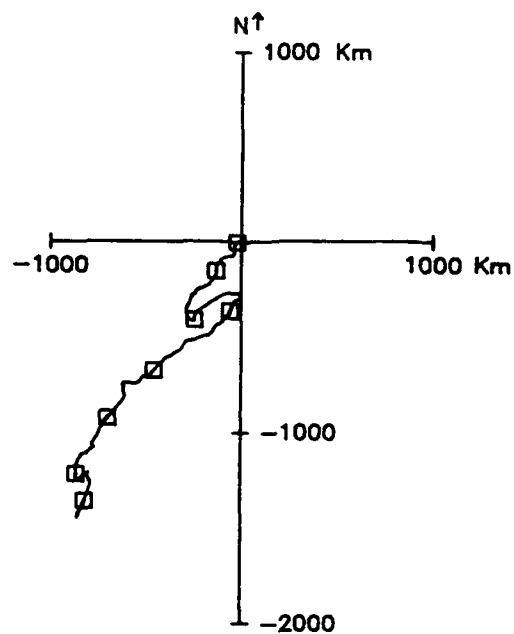
2465M AT MOORING 5. 28 JAN 86 - 3 APR 86. TAPE 4580/4.



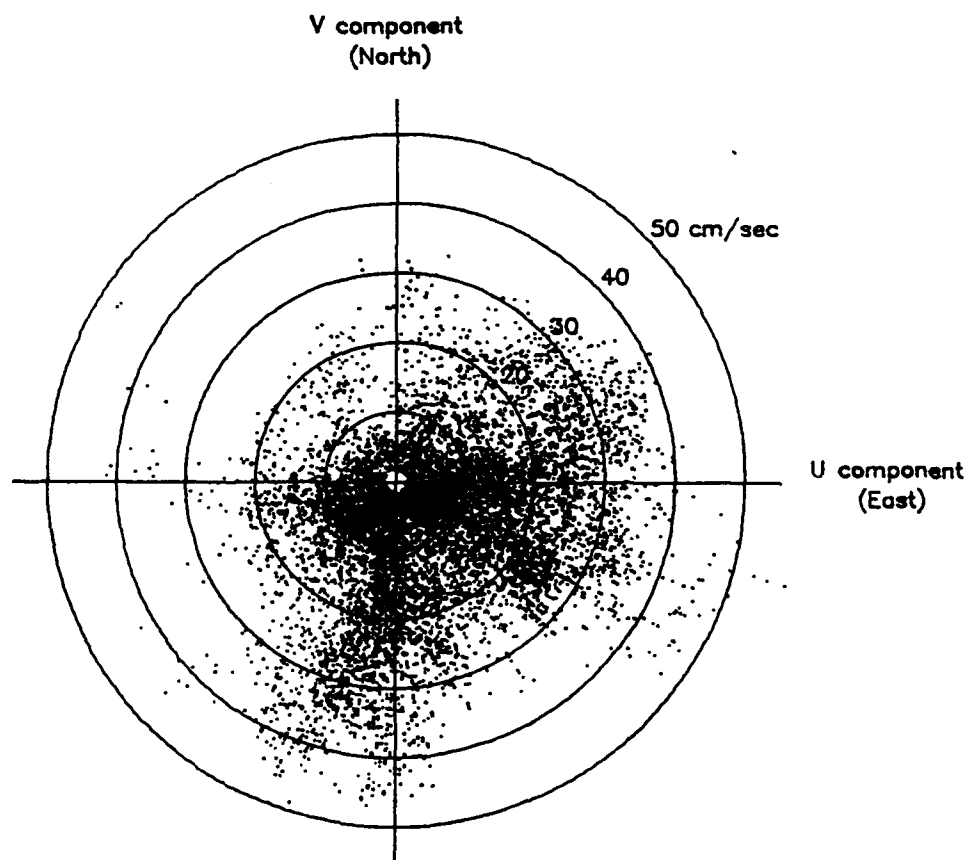
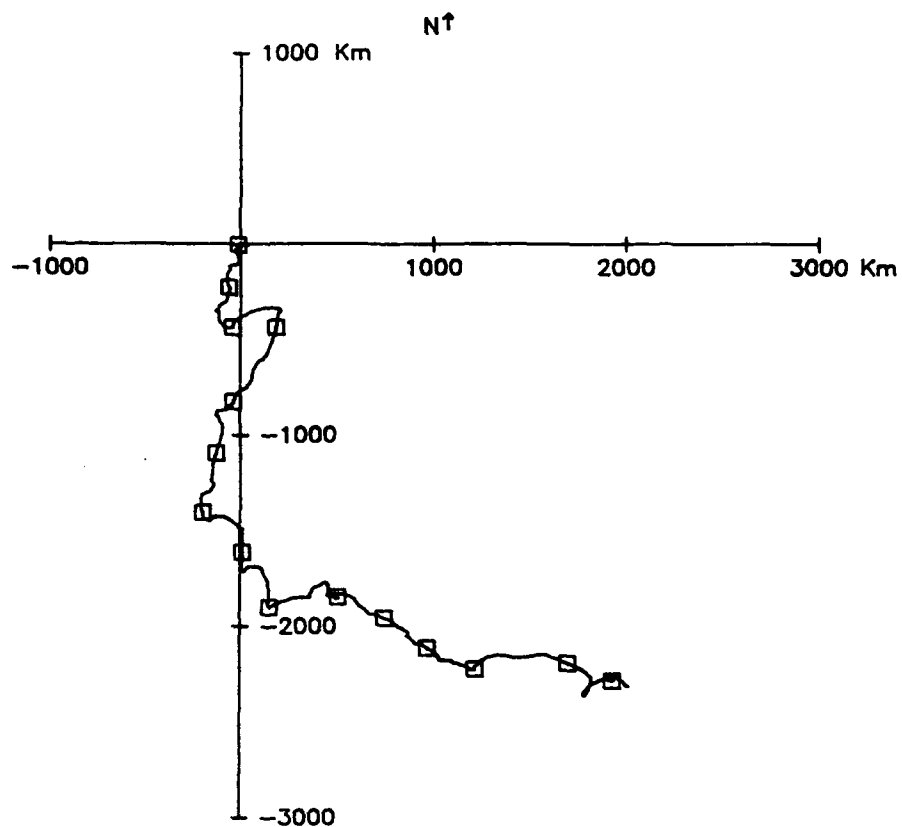
3520M AT MOORING 5. 28 JAN 86 - 15 APR 87. TAPE 1244/38.



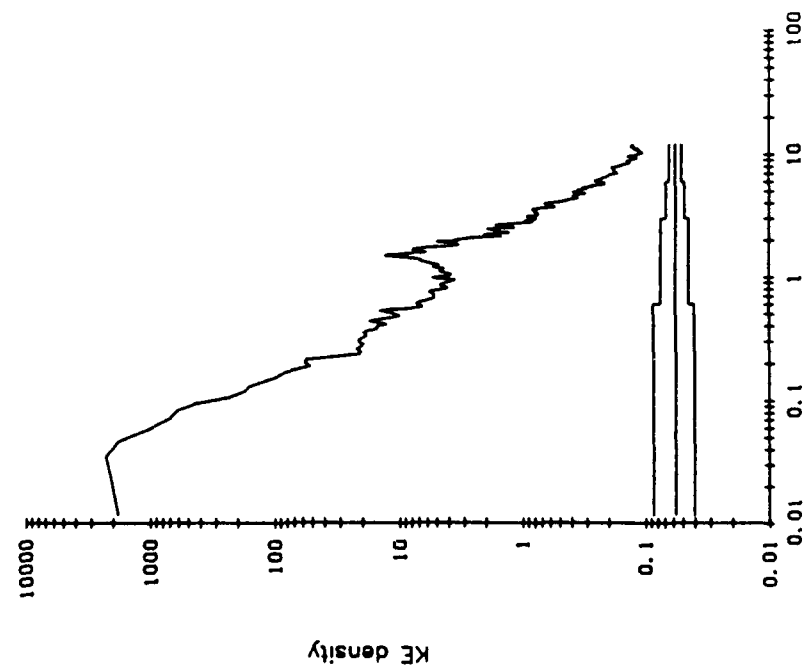
4480M AT MOORING 5. 28 JAN 86 - 14 SEP 86. TAPE 1245/43.



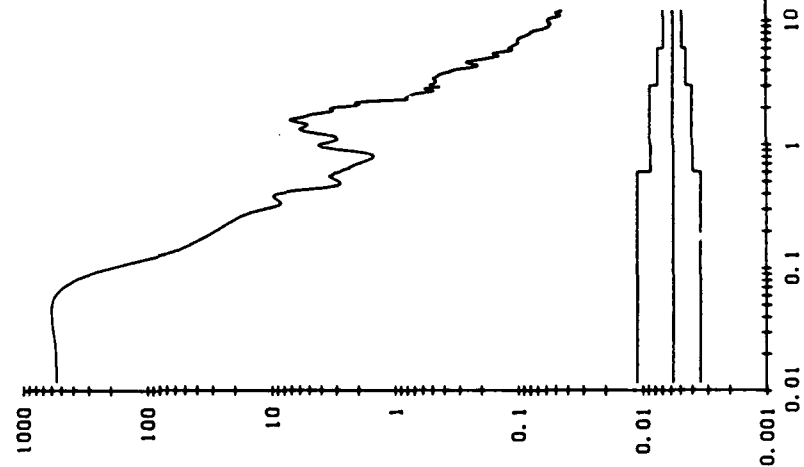
5940M AT MOORING 5. 28 JAN 86 - 15 APR 87. TAPE 4416/34.



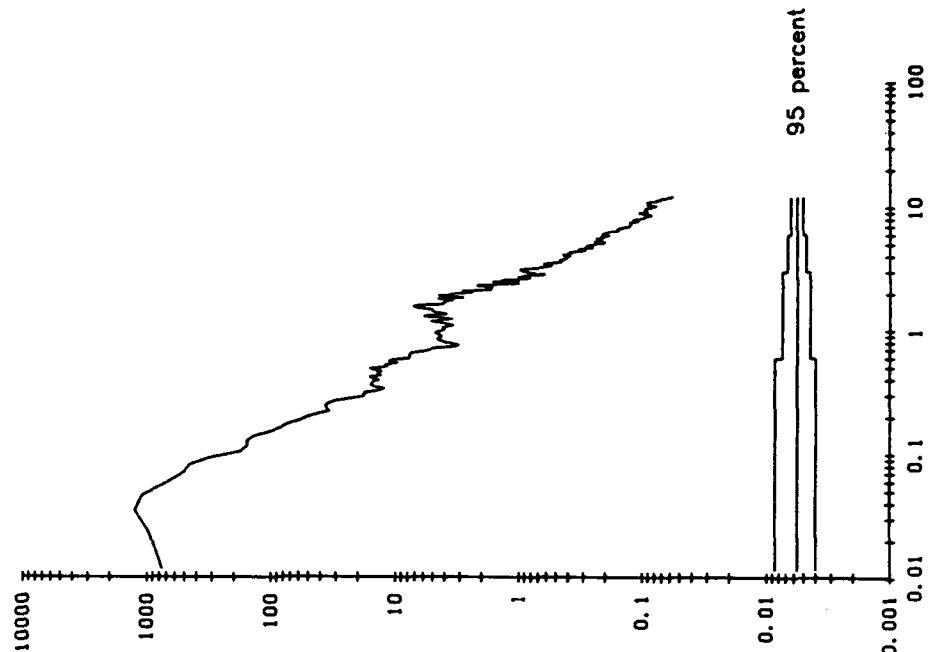
Unfiltered current. 1750 m at Mooring 5.
Both components



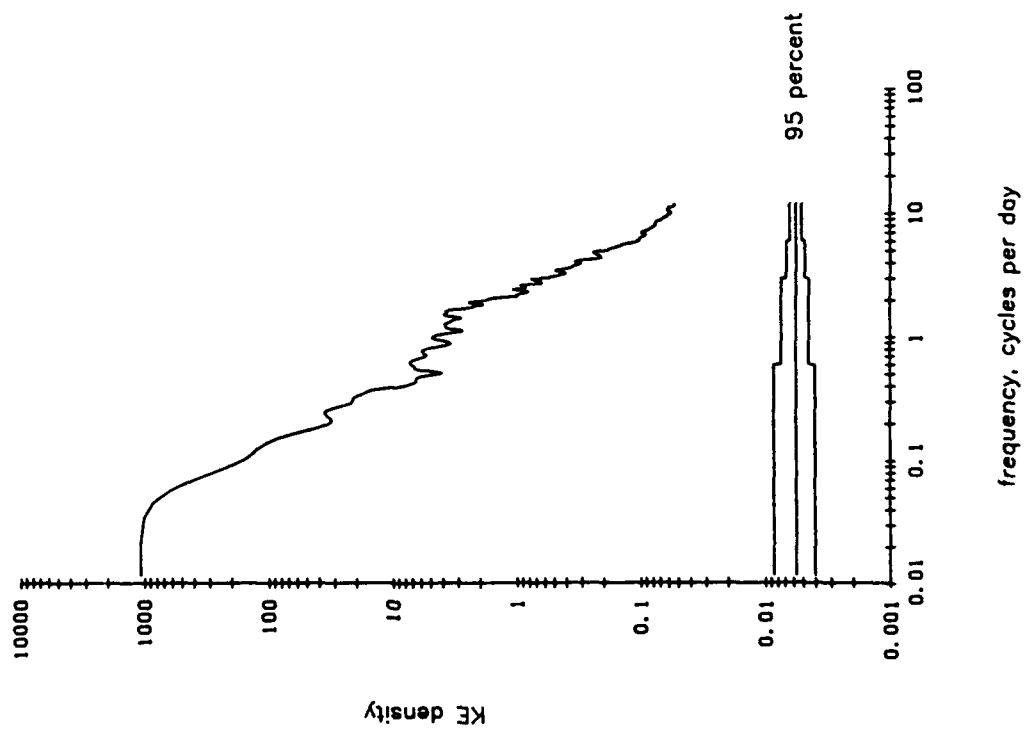
Unfiltered current. 2465 m at Mooring 5
Both components



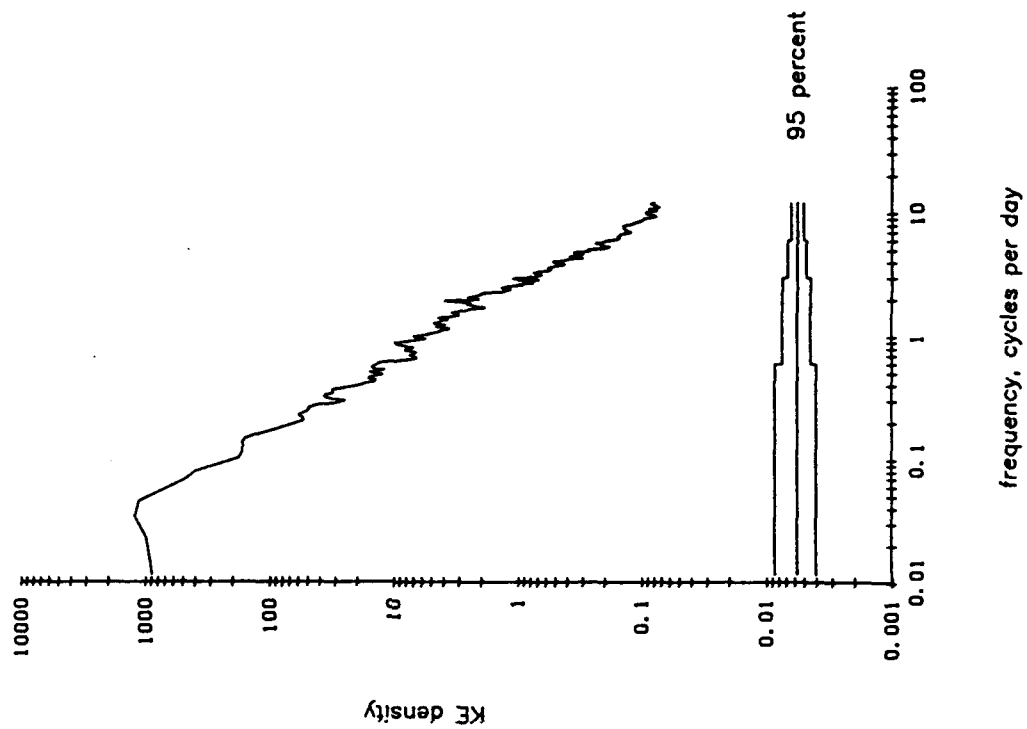
Unfiltered current. 3520 m at Mooring 5.
Both components



Unfiltered current. 4480 m at Mooring 5.
Both components



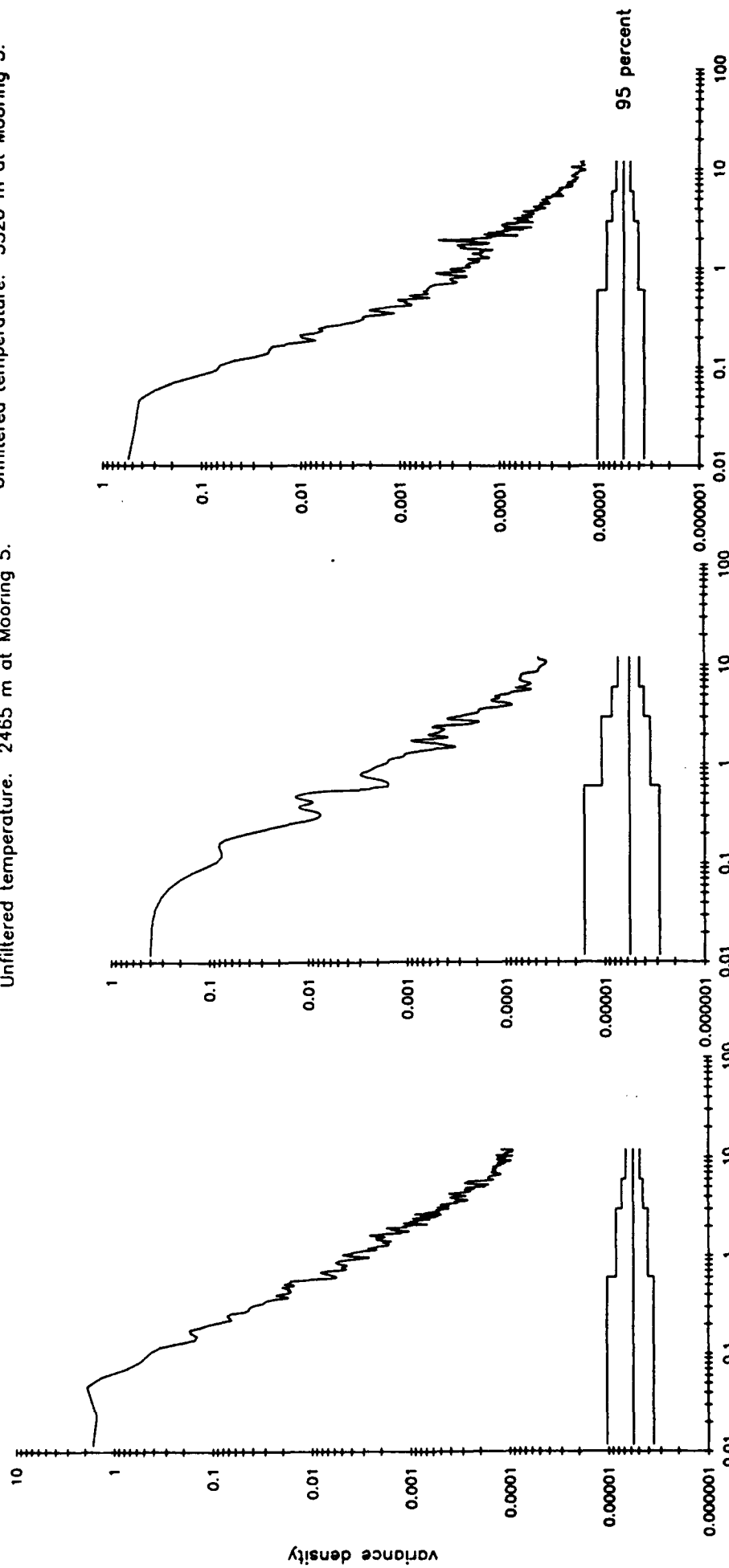
Unfiltered current. 5940 m at Mooring 5.
Both components



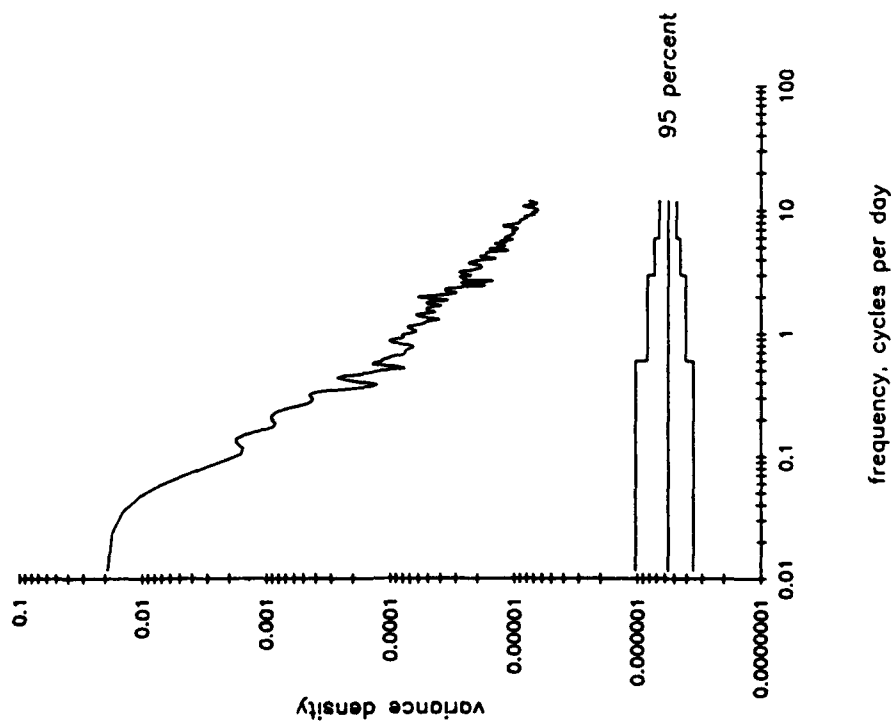
Unfiltered temperature. 1750 m at Mooring 5.

Unfiltered temperature. 2465 m at Mooring 5.

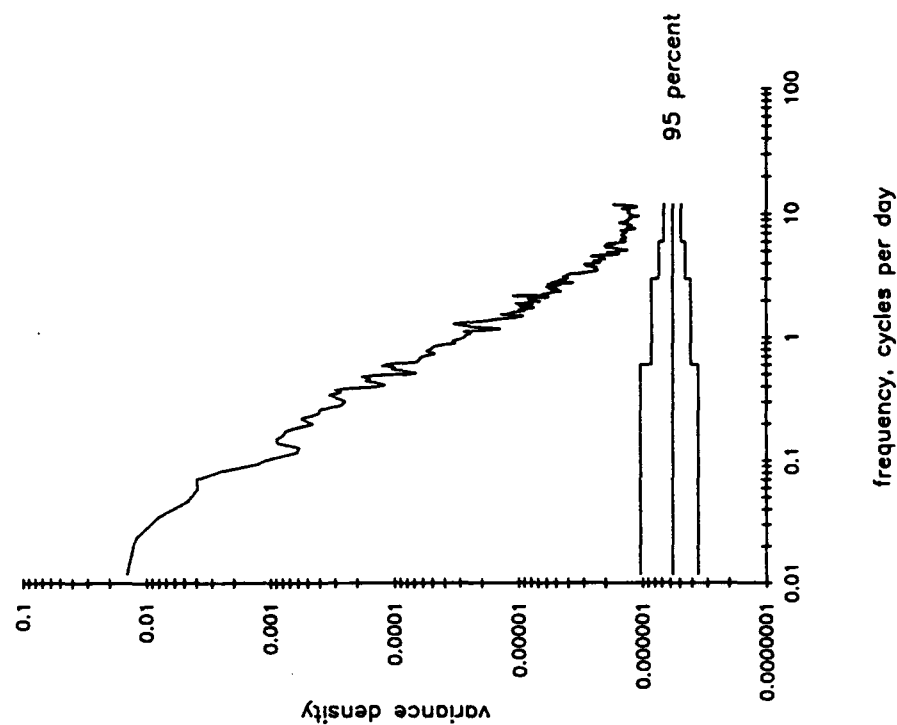
Unfiltered temperature. 3520 m at Mooring 5.

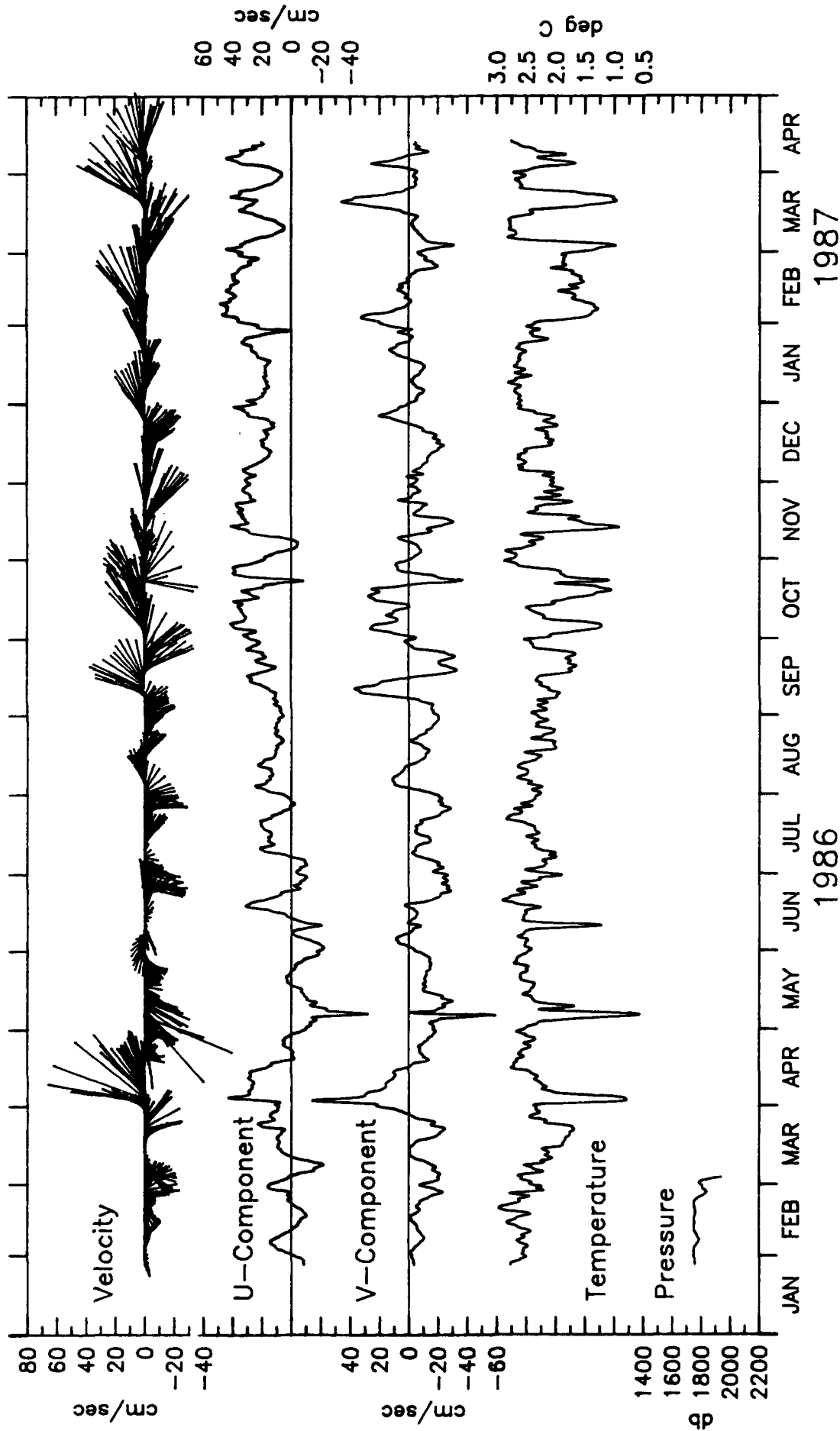


Unfiltered temperature. 4480 m at Mooring 5.

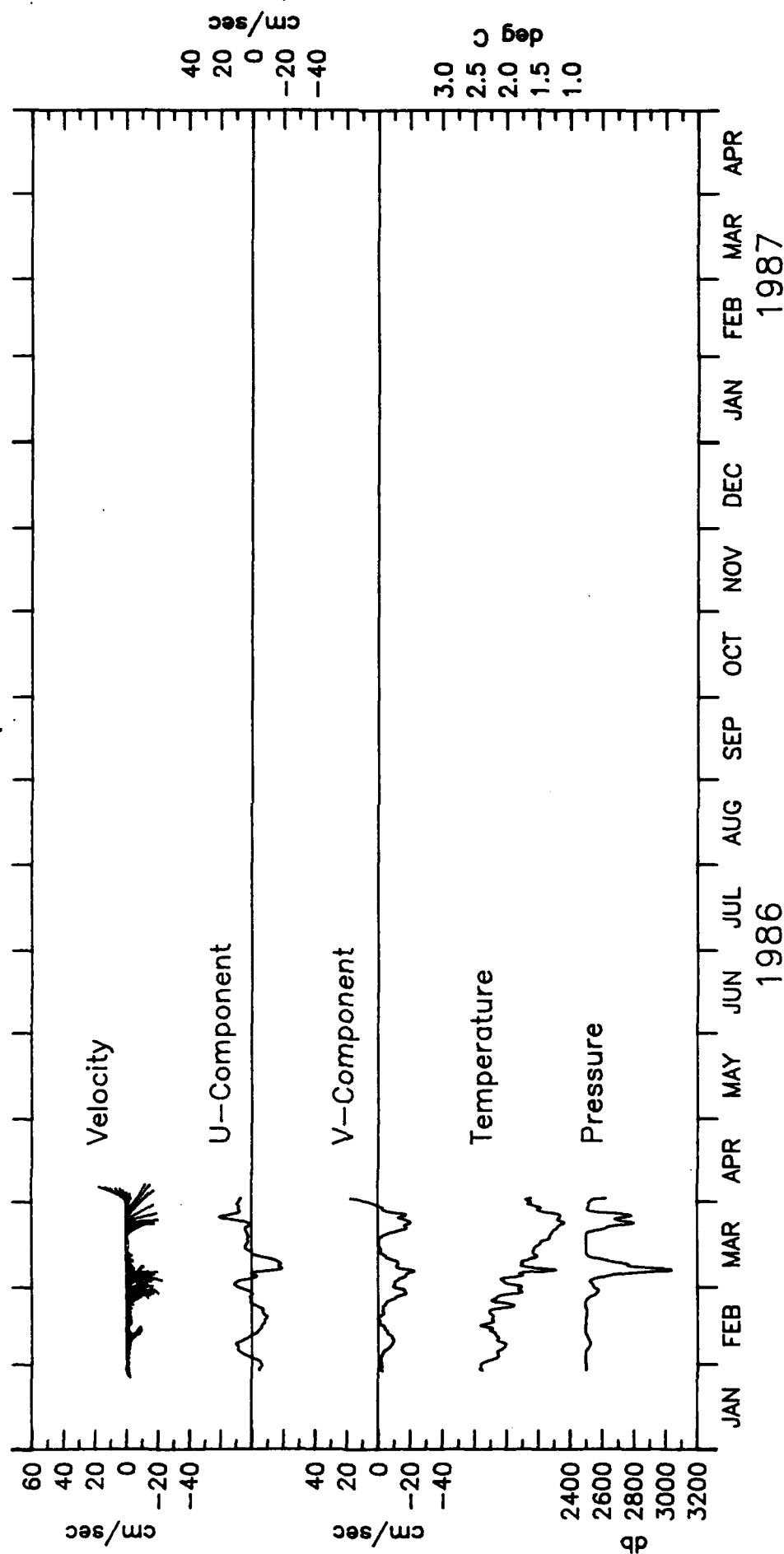


Unfiltered temperature. 5940 m at Mooring 5.

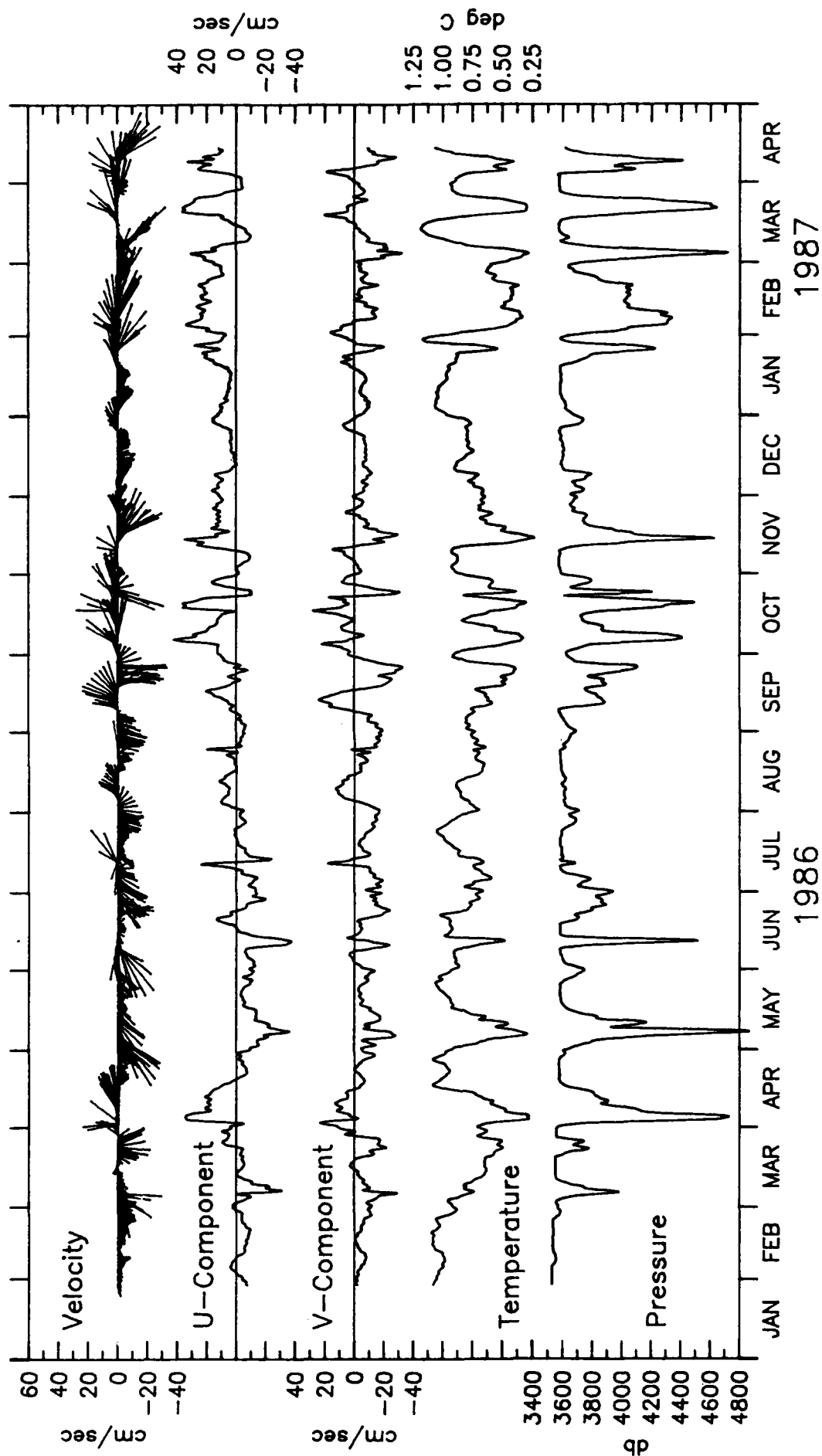




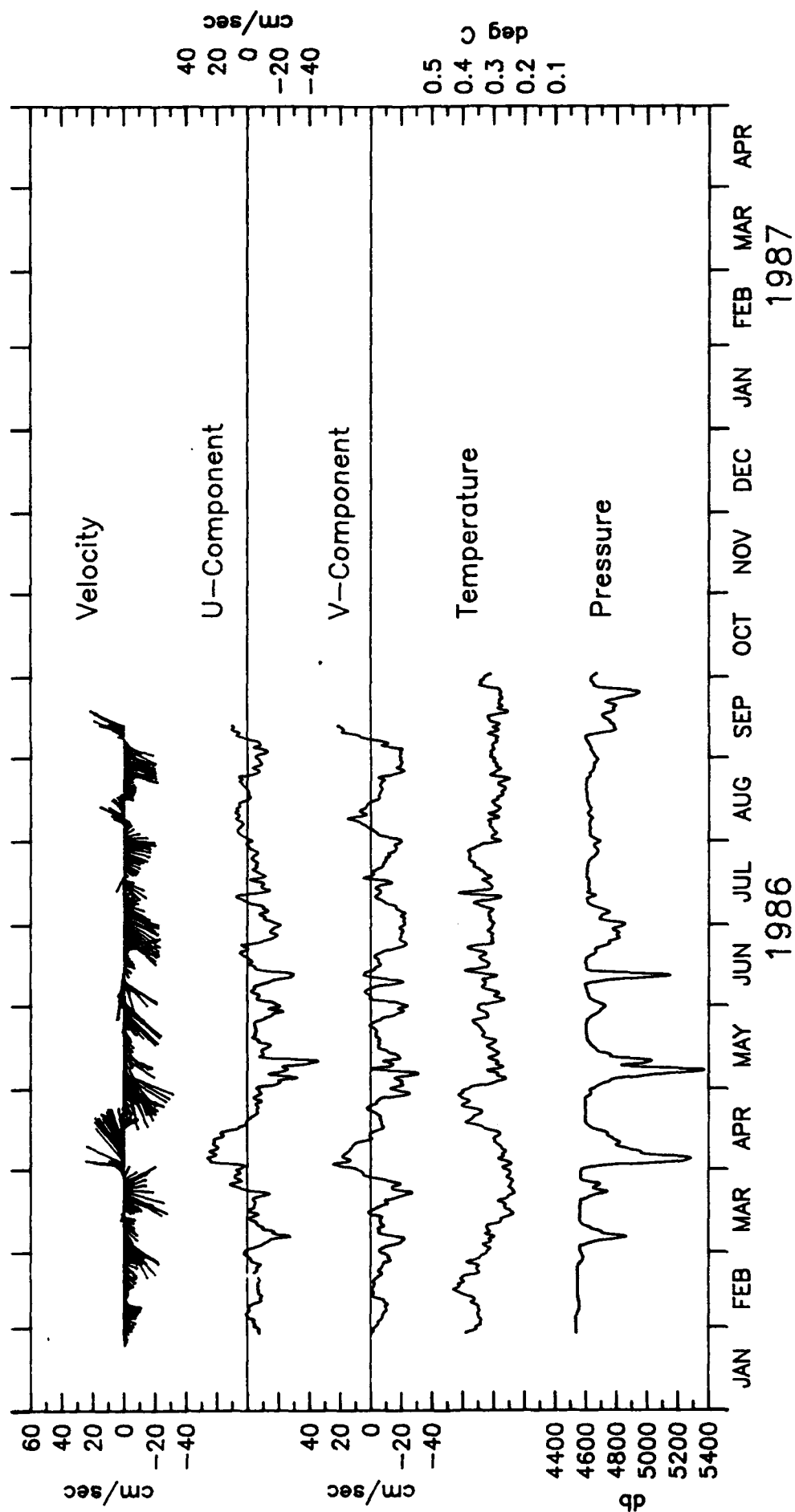
1750M AT MOORING 5.



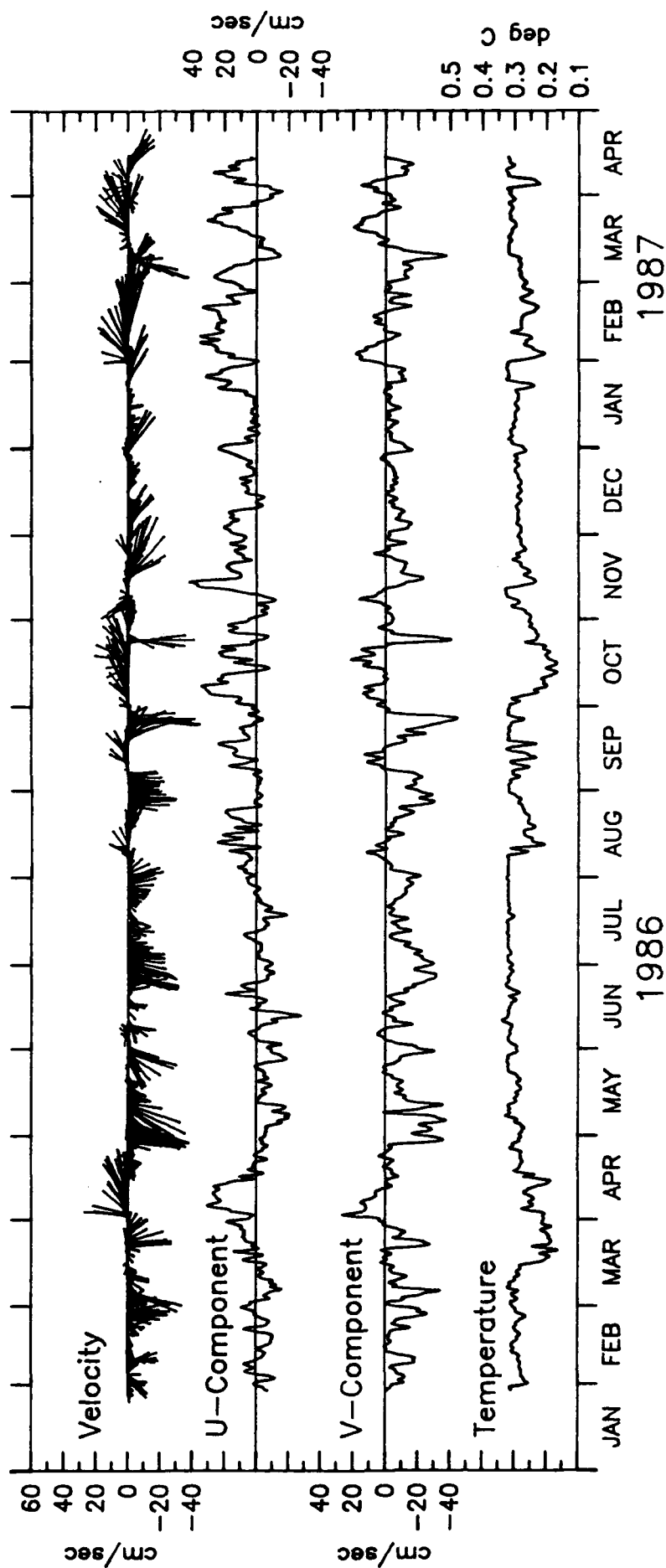
2465 M AT MOORING 5.



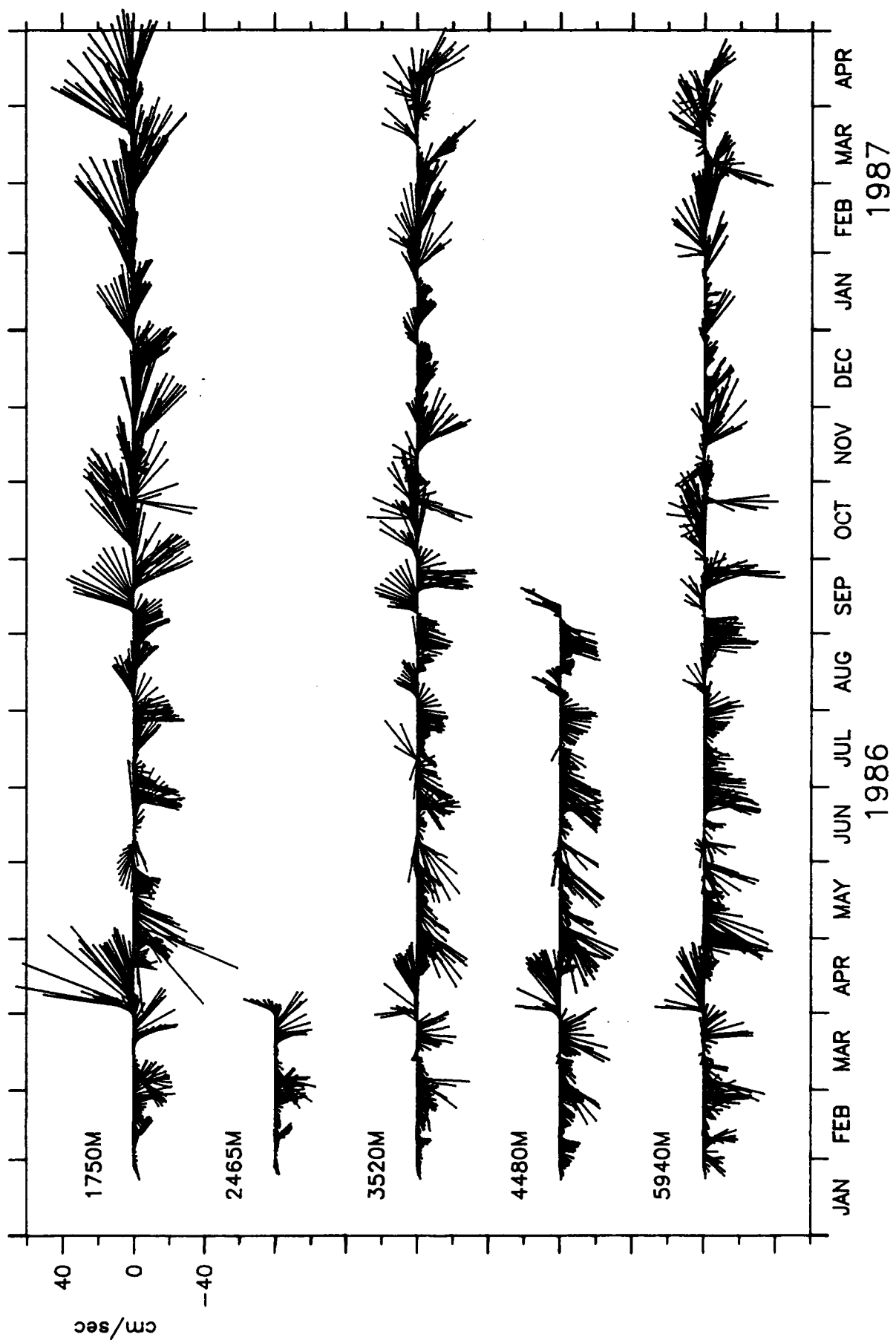
3520M AT MOORING 5.



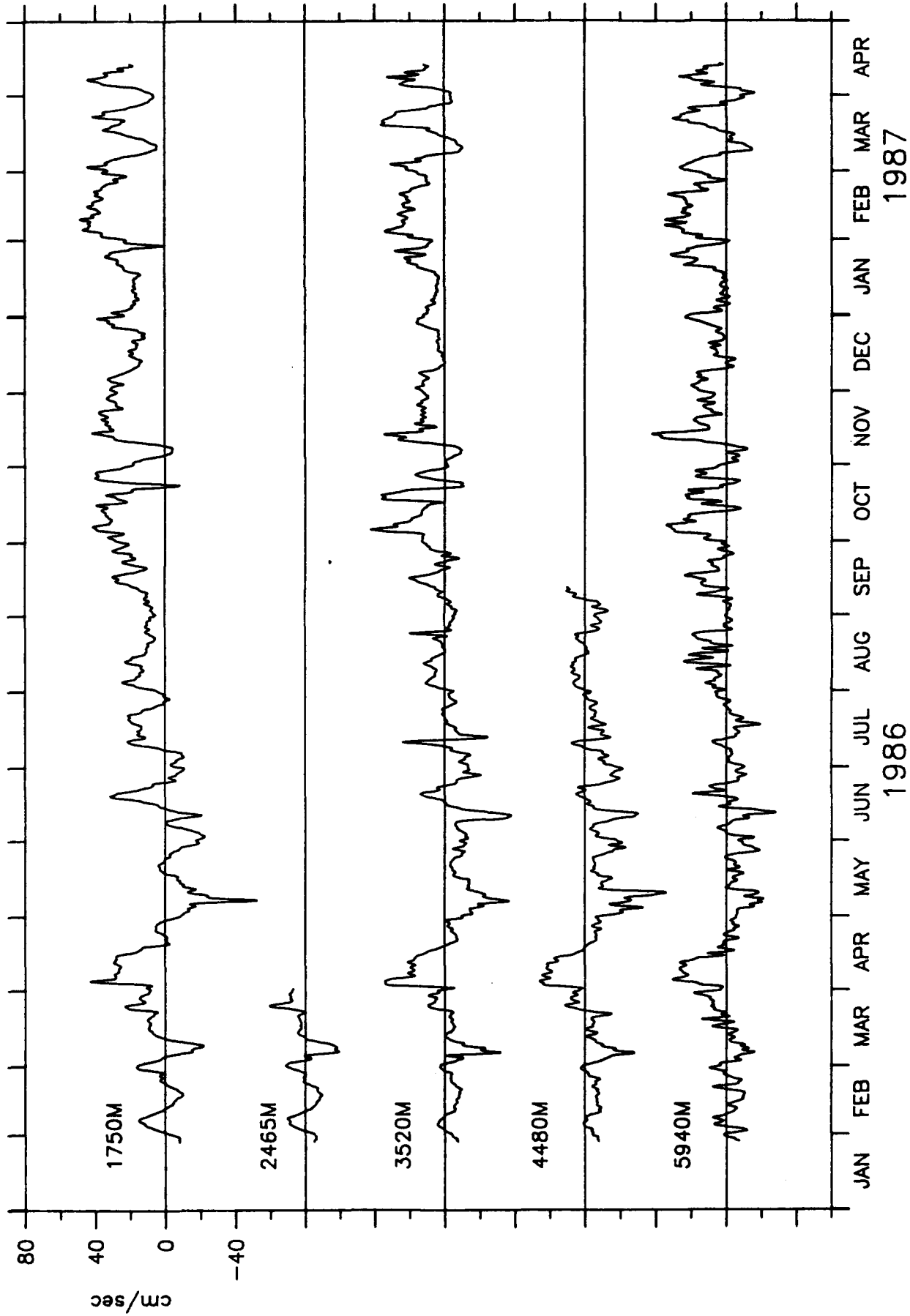
4480M AT MOORING 5.



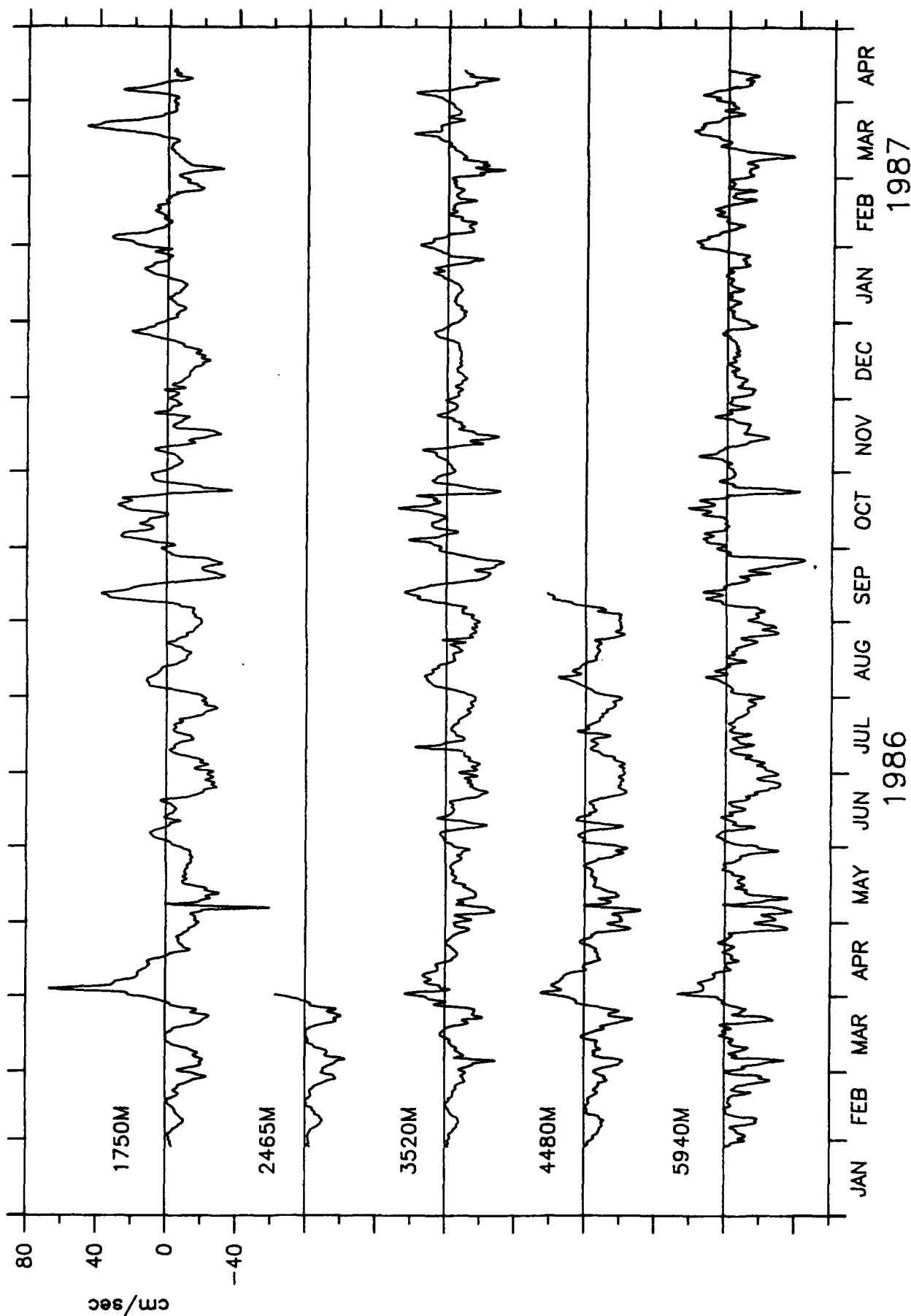
5940M AT MOORING 5.



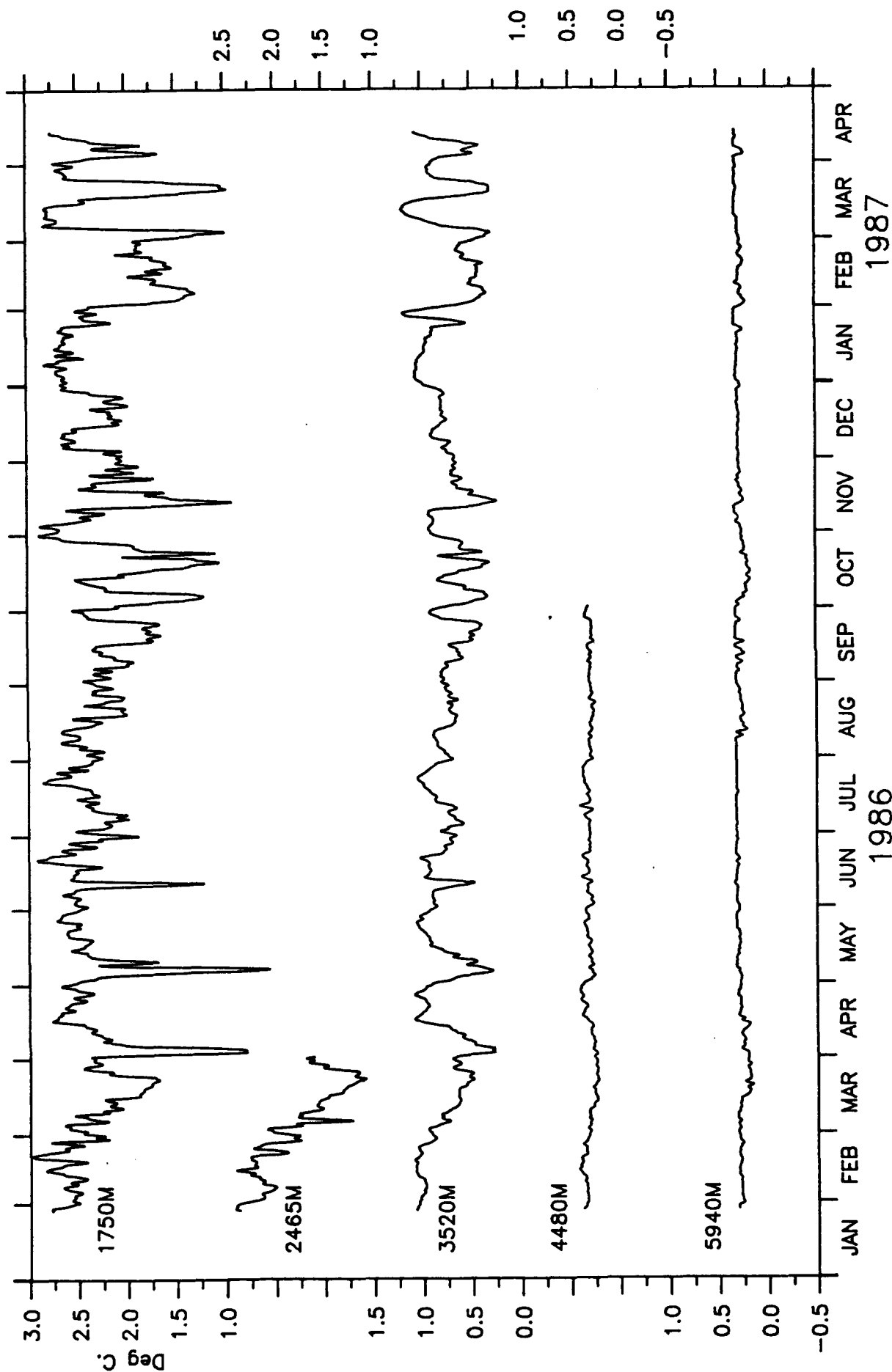
VELOCITY, MOORING 5.



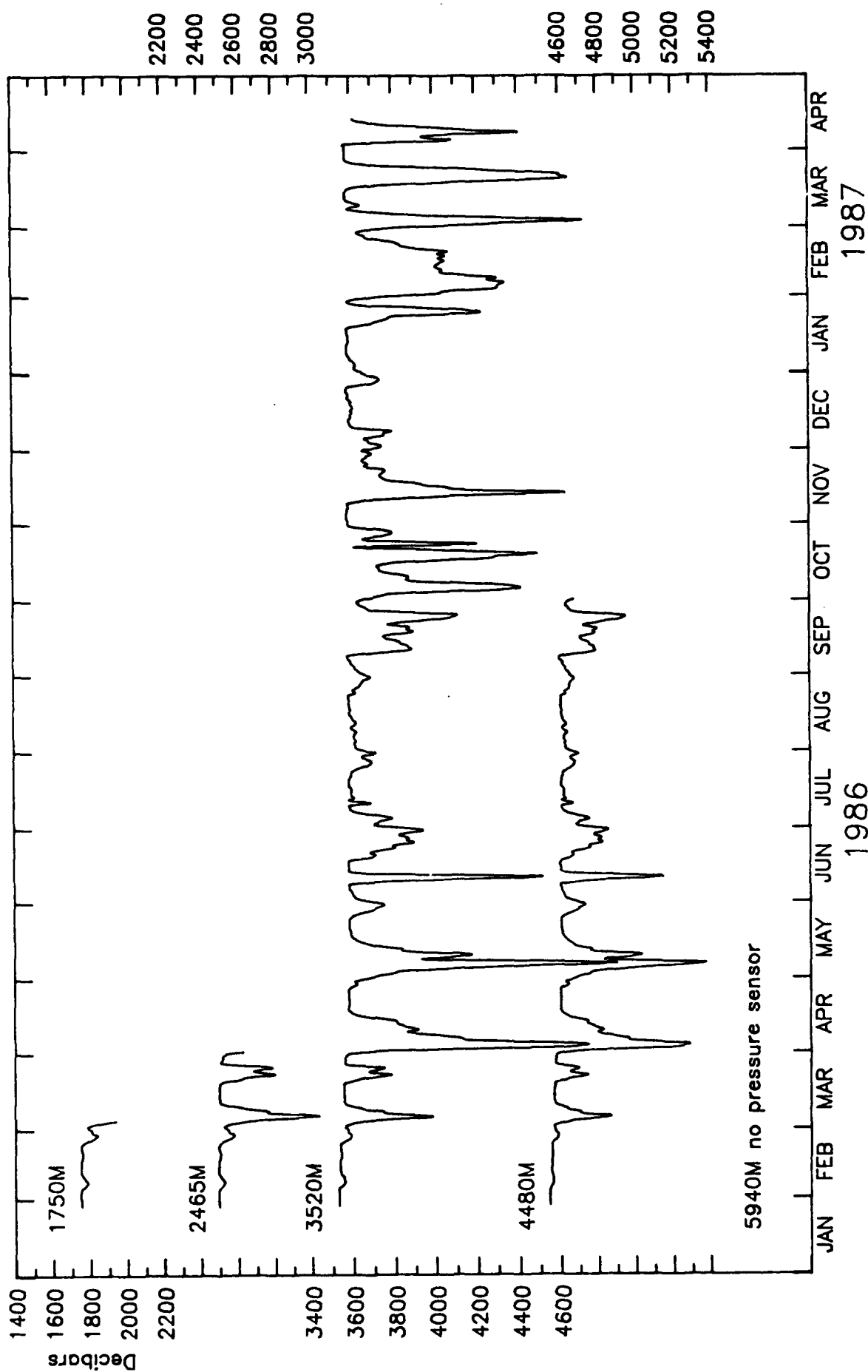
U-COMPONENT MOORING 5.



V-COMPONENT MOORING 5.



TEMPERATURE, MOORING 5.



PRESSURE, MOORING 5.

MOORING 6

48°07.00'S, 41°17.00'W

1986 1987
 JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR

810 M

S
 P
 T
 P
 Sol

1580 M

S
 P
 T
 P
 Sol

2330 M

S
 P
 T
 P
 Sol

3385 M

S
 P
 T
 P

4385 M

S
 P
 T

5815 M

S
 P
 T

DATA RETURN FROM MOORING 6.

MOORING 6. UNFILTERED HOURLY DATA

810M AT MOORING 6. 0000 29 JAN 86 - 1000 25 MAR 87. TAPE 7165/12.

| | MEAN | SD | MIN | MAX | LENGTH | ENDS AT |
|---|---------|--------|--------|---------|--------|------------------|
| S | 26.39 | 10.52 | 0.80 | 72.30 | 10045 | (1300 23 MAR 87) |
| U | 16.02 | 16.39 | -48.90 | 70.70 | 10045 | (1300 23 MAR 87) |
| V | -7.73 | 14.90 | -50.40 | 36.50 | 10045 | (1300 23 MAR 87) |
| T | 2.67 | 0.20 | 1.53 | 3.31 | 10091 | (1000 25 MAR 87) |
| P | 1086.49 | 248.11 | 821.60 | 2100.80 | 9987 | (1000 25 MAR 87) |

1580M AT MOORING 6. 0100 29 JAN 86 - 1200 25 MAR 87. TAPE 4578/5.

| | | | | | | |
|---|---------|--------|---------|---------|-------|------------------|
| S | 19.34 | 9.02 | 0.80 | 53.90 | 10092 | (1200 25 MAR 87) |
| U | 11.47 | 12.43 | -32.00 | 53.80 | 10092 | (1200 25 MAR 87) |
| V | -5.92 | 11.59 | -50.40 | 32.10 | 10092 | (1200 25 MAR 87) |
| T | 2.50 | 0.26 | 1.04 | 3.11 | 10092 | (1200 25 MAR 87) |
| P | 1862.64 | 256.23 | 1597.30 | 3157.30 | 10092 | (1200 25 MAR 87) |

2330M AT MOORING 6. 0000 29 JAN 86 - 0400 29 MAR 86. TAPE 4581/5.

| | | | | | | |
|---|---------|--------|---------|---------|------|------------------|
| S | 13.58 | 8.27 | 0.80 | 34.90 | 1425 | (0800 29 MAR 86) |
| U | 2.64 | 9.33 | -22.30 | 28.40 | 1425 | (0800 29 MAR 86) |
| V | -7.94 | 9.78 | -34.90 | 11.50 | 1425 | (0800 29 MAR 86) |
| T | 2.00 | 0.41 | 1.14 | 2.69 | 1425 | (0800 29 MAR 86) |
| P | 2542.76 | 209.54 | 2355.80 | 3215.80 | 1425 | (0800 29 MAR 86) |

3385M AT MOORING 6. 0000 29 JAN 86 - 1100 25 MAR 87. TAPE 1539/38.

| | | | | | | |
|---|---------|--------|---------|---------|-------|------------------|
| S | 14.32 | 7.93 | 0.80 | 50.70 | 9157 | (1100 25 MAR 87) |
| U | 3.93 | 10.32 | -32.50 | 38.30 | 9157 | (1100 25 MAR 87) |
| V | -5.50 | 10.76 | -47.00 | 46.00 | 9157 | (1100 25 MAR 87) |
| T | 1.05 | 0.21 | 0.30 | 1.58 | 10092 | (1100 25 MAR 87) |
| P | 3600.76 | 172.73 | 3390.00 | 4593.00 | 10092 | (1100 25 MAR 87) |

4385M AT MOORING 6. 0000 29 JAN 86 - 1100 25 MAR 87. TAPE 5330/11.

| | | | | | | |
|---|-------|------|--------|-------|-------|------------------|
| S | 13.18 | 7.06 | 0.80 | 43.50 | 10092 | (1100 25 MAR 87) |
| U | 2.35 | 9.17 | -28.90 | 33.80 | 9891 | (0200 17 MAR 87) |
| V | -6.05 | 9.68 | -42.30 | 30.50 | 9891 | (0200 17 MAR 87) |
| T | 0.39 | 0.08 | 0.17 | 0.91 | 10092 | (1100 25 MAR 87) |

(Speed, u, and v are given in cm/sec, Temperature in °C, Pressure in DB.)

MOORING 6. UNFILTERED HOURLY DATA

| | MEAN | SD | MIN | MAX | LENGTH | ENDS AT |
|---|-------|-------|--------|-------|--------|------------------|
| 5815M AT MOORING 6. 0000 29 JAN 86 - 1100 25 MAR 87. TAPE 7407/5. | | | | | | |
| S | 14.52 | 7.76 | 0.80 | 44.00 | 10092 | (1100 25 MAR 87) |
| U | 0.43 | 10.11 | -38.40 | 33.70 | 10092 | (1100 25 MAR 87) |
| V | -5.52 | 11.76 | -39.20 | 39.40 | 10092 | (1100 25 MAR 87) |
| T | 0.26 | 0.03 | 0.12 | 0.31 | 10092 | (1100 25 MAR 87) |

(810 M) SPEED BRIDGES LINES:

9947 - 9970 (1000 19 MAR 87 - 0900 20 MAR 87)

SPEED RECORD TERMINATED AT LINE

10046 (1300 23 MAR 86)

PRESSURE OFFSCALE, GAPS LINES:

2315 - 2350 (1000 5 MAY 86 - 2100 6 MAY 86)

4978 - 5003 (0900 24 AUG 86 - 1000 25 AUG 86)

6899 - 6940 (1000 12 NOV 86 - 0300 14 NOV 86)

(1580 M) SPEED BRIDGED, LINES:

2787 - 2891 (0300 25 MAY 86 - 1100 29 MAY 86)

(2330 M) INSTRUMENT DESTROYED BY FLOODING, SHORT RECORD.

(3385 M) SPEED GAPS LINES:

6628 - 7562 (0300 1 NOV 86 - 0100 10 DEC 86).

DIRECTION GAPS LINES:

6773 - 6958 (0400 7 NOV 86 - 2100 14 NOV 86)

(4385 M) DIRECTION RECORD ERRATIC AFTER LINE 9891 (0200 17 MAR 87), RECORD TERMINATED THERE.

(Speed, u, and v are given in cm/sec, Temperature in °C, Pressure in DB).

MOORING 6. LLP FILTERED 6-HOURLY DATA

810M AT MOORING 6. 0000 30 JAN 86 - 0600 24 MAR 87. TAPE 7165/12.

| | MEAN | SD | MIN | MAX | LENGTH | ENDS AT |
|---|---------|--------|--------|---------|--------|------------------|
| U | 16.09 | 15.89 | -41.03 | 54.61 | 1667 | (1200 22 MAR 87) |
| V | -7.75 | 14.47 | -42.75 | 29.76 | 1667 | (1200 22 MAR 87) |
| T | 2.67 | 0.19 | 1.63 | 3.26 | 1674 | (0600 24 MAR 87) |
| P | 1076.46 | 230.89 | 822.35 | 1974.44 | 1633 | (0600 24 MAR 87) |
| S | 34.49 | 2.27 | 34.24 | 34.88 | 1602 | (0600 24 MAR 87) |

1580M AT MOORING 6. 0600 30 JAN 86 - 0600 24 MAR 87. TAPE 4578/5.

| | | | | | | |
|---|---------|--------|---------|---------|------|------------------|
| U | 11.53 | 11.99 | -26.29 | 49.76 | 1673 | (0600 24 MAR 87) |
| V | -5.93 | 11.22 | -41.99 | 24.92 | 1673 | (0600 24 MAR 87) |
| T | 2.50 | 0.25 | 1.01 | 2.87 | 1673 | (0600 24 MAR 87) |
| P | 1863.39 | 255.97 | 1597.24 | 3124.97 | 1673 | (0600 24 MAR 87) |
| S | 34.78 | 3.50 | 34.60 | 34.90 | 1673 | (0600 24 MAR 87) |

2330M AT MOORING 6. 0000 30 JAN 86 - 0600 28 MAR 86 TAPE 4581/5.

| | | | | | | |
|---|---------|--------|---------|---------|-----|------------------|
| U | 2.97 | 8.97 | -15.54 | 21.44 | 230 | (0600 28 MAR 86) |
| V | -8.05 | 9.58 | -30.95 | 6.80 | 230 | (0600 28 MAR 86) |
| T | 2.01 | 0.41 | 1.22 | 2.66 | 230 | (0600 28 MAR 86) |
| P | 2546.45 | 211.27 | 2358.16 | 3173.35 | 230 | (0600 28 MAR 86) |
| S | 34.77 | 2.17 | 34.72 | 34.84 | 230 | (0600 28 MAR 86) |

3385M AT MOORING 6. 0000 30 JAN 86 - 0600 24 MAR 87 TAPE 1539/38

| | | | | | | |
|---|---------|--------|---------|---------|------|------------------|
| U | 4.07 | 9.97 | -30.38 | 34.37 | 1510 | (0600 24 MAR 87) |
| V | -5.50 | 10.56 | -40.54 | 38.26 | 1510 | (0600 24 MAR 87) |
| T | 1.05 | 0.21 | 0.31 | 1.55 | 1674 | (0600 24 MAR 87) |
| P | 3601.27 | 172.43 | 3436.42 | 4584.43 | 1674 | (0600 24 MAR 87) |

4385M AT MOORING 6. 0000 30 JAN 86 - 0600 24 MAR 87. TAPE 5330/11.

| | | | | | | |
|---|-------|------|--------|-------|------|------------------|
| U | 2.38 | 8.93 | -27.05 | 30.37 | 1641 | (0000 16 MAR 87) |
| V | -6.08 | 9.45 | -38.37 | 23.49 | 1641 | (0000 16 MAR 87) |
| T | 0.39 | 0.08 | 0.20 | 0.86 | 1674 | (0600 24 MAR 87) |

5815M AT MOORING 6. 0000 30 JAN 86 - 0600 24 MAR 87. TAPE 7407/5.

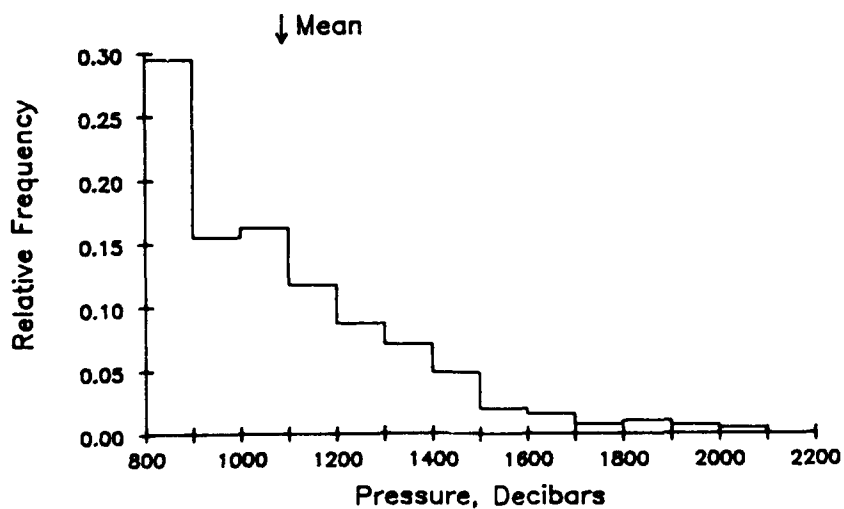
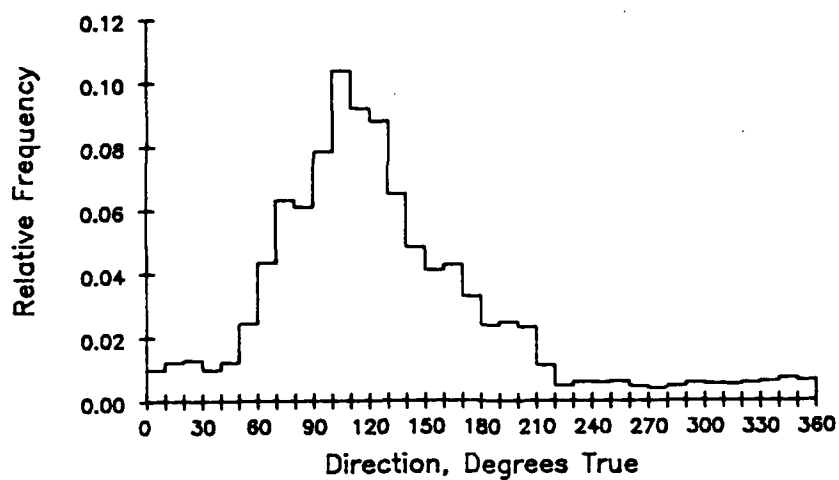
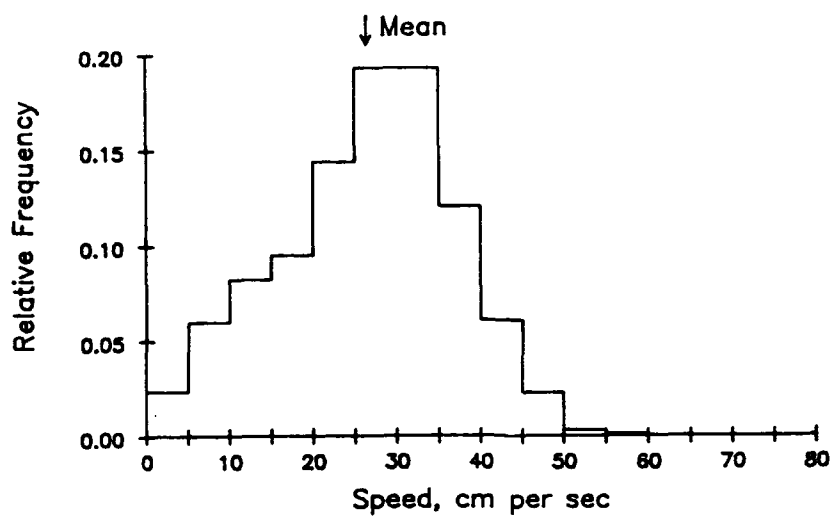
| | | | | | | |
|---|-------|-------|--------|-------|------|------------------|
| U | 0.47 | 9.87 | -34.11 | 31.61 | 1674 | (0600 24 MAR 87) |
| V | -5.51 | 11.55 | -37.22 | 31.34 | 1674 | (0600 24 MAR 87) |
| T | 0.26 | 0.03 | 0.14 | 0.31 | 1674 | (0600 24 MAR 87) |

(Speed, u, and v are given in cm/sec, Temperature in °C, Pressure in DB, and Corrected Salinity in ppt.)

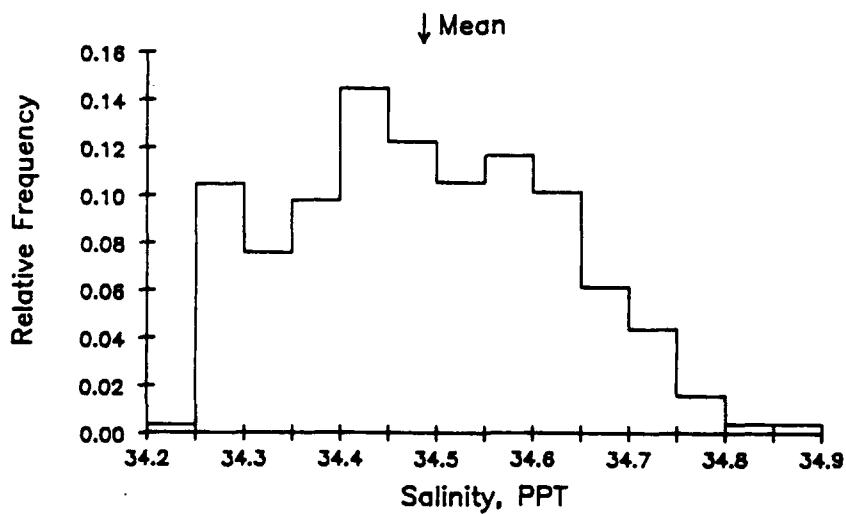
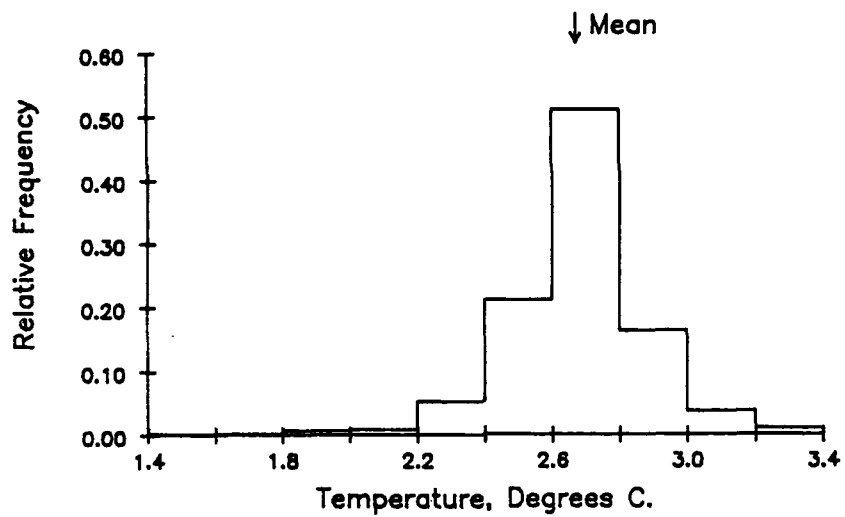
MOORING 6. LLP FILTERED DATA

- (810 M) BRIDGES IN UNFILTERED SPEED RECORD.
SPEED TERMINATED EARLY IN UNFILTERED RECORD,
LLP U & V RECORDS TERMINATED LINE
1668 (1800 23 MAR 87)
PRESSURE OFFSCALE, GAPS IN UNFILTERED RECORD,
LLP GAPS LINES:
379 - 392 (1200 4 MAY 86 - 1800 7 MAY 86)
823 - 834 (1200 23 AUG 86 - 0600 26 AUG 86)
1143 - 1157 (1200 11 NOV 86 - 0000 15 NOV 86)
GAPS IN SALINITY RECORD, BAD VALUES REMOVED
- (1580 M) BRIDGE IN UNFILTERED SPEED RECORD.
- (2330 M) INSTRUMENT DESTROYED BY FLOODING, SHORT RECORD.
- (3385 M) SPEED AND DIRECTION GAPS IN UNFILTERED RECORD,
LLP GAPS IN U AND V LINES:
1098 - 1261 (0600 31 OCT 86 - 0000 11 DEC 86)
- (4385 M) DIRECTION GAPS IN UNFILTERED RECORD, U AND V
TERMINATED IN FILTERED RECORD AT LINE
1642 (0600 16 MAR 86)

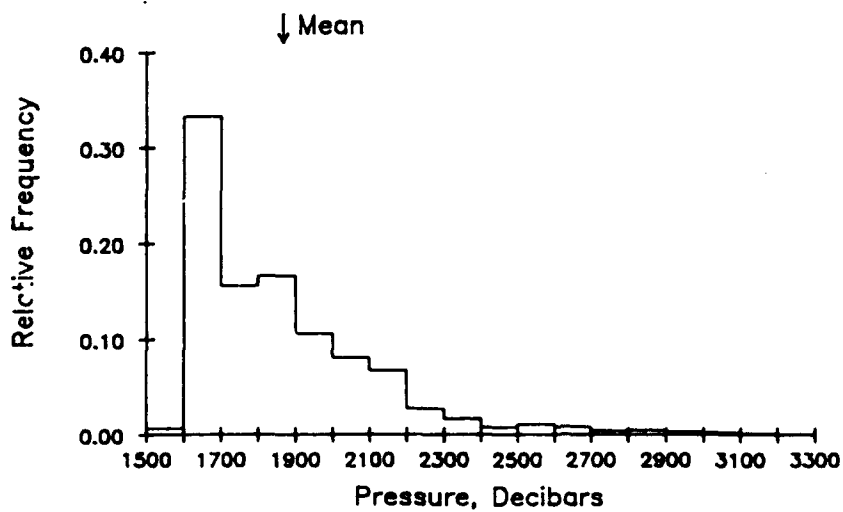
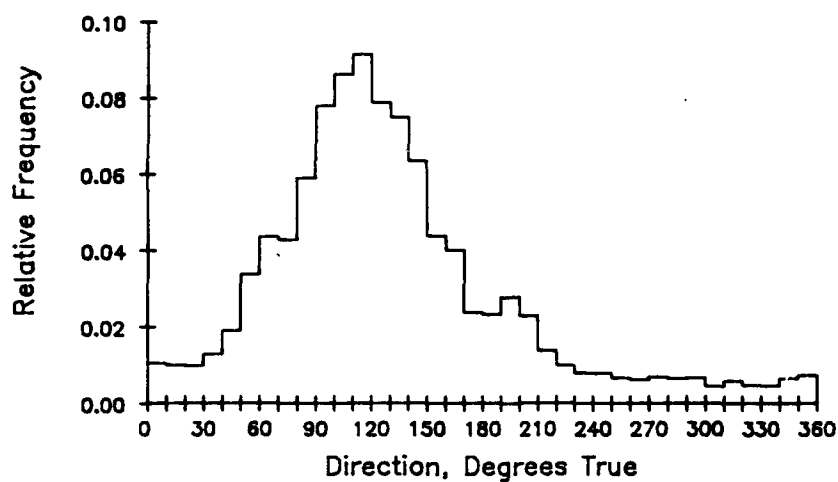
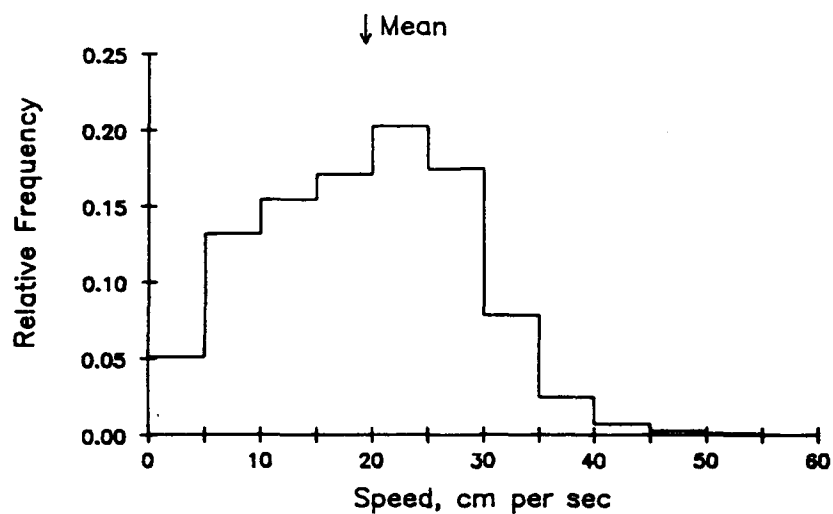
810 METERS AT MOORING 6. TAPE 7165/12.



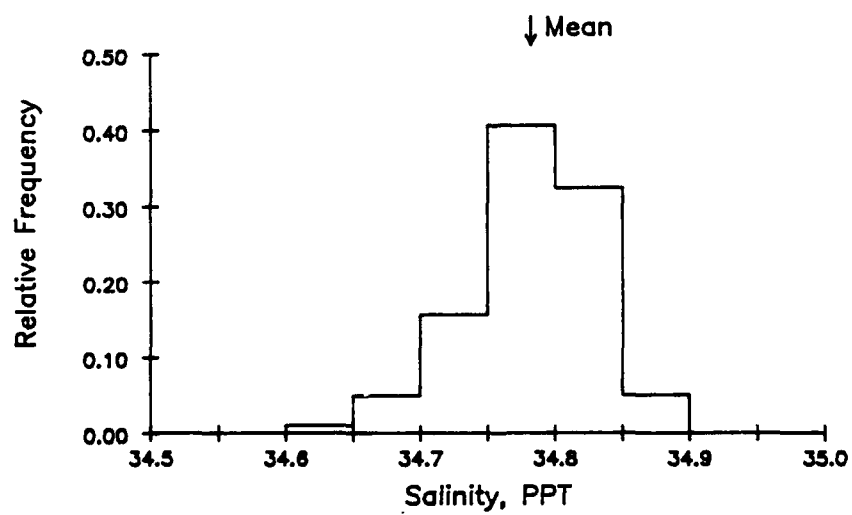
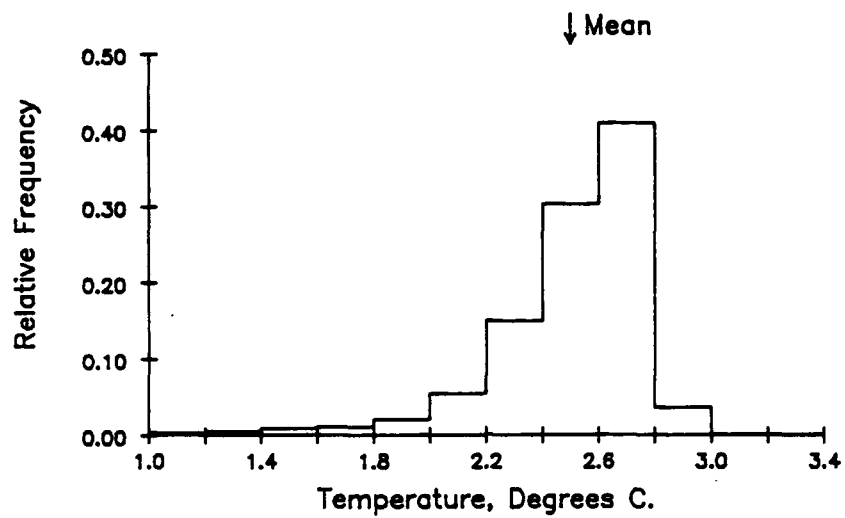
810 METERS AT MOORING 6. TAPE 7165/12.



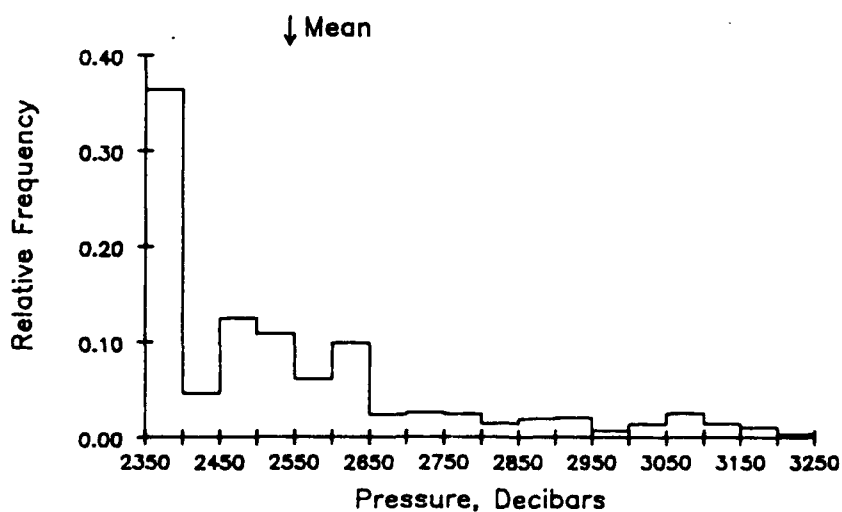
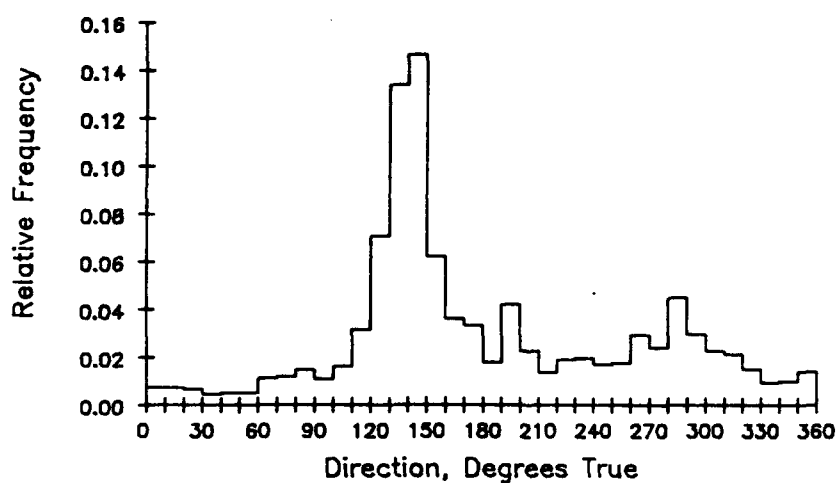
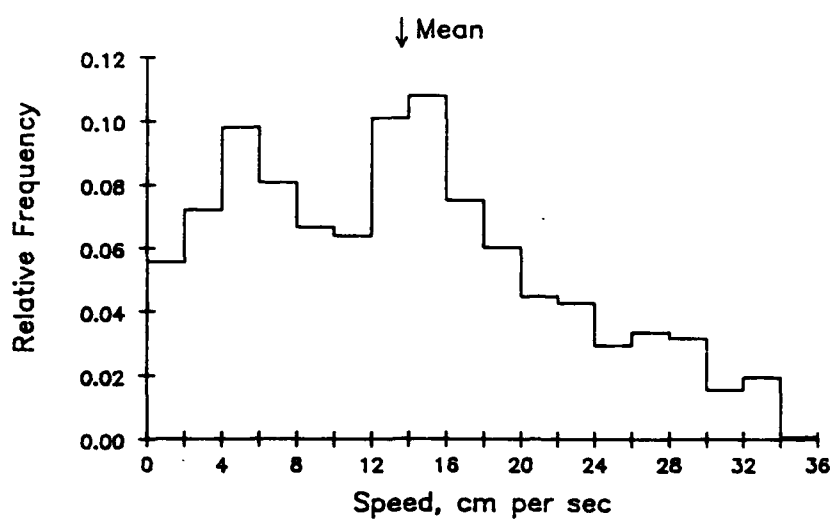
1580 METERS AT MOORING 6. TAPE 4578/5.



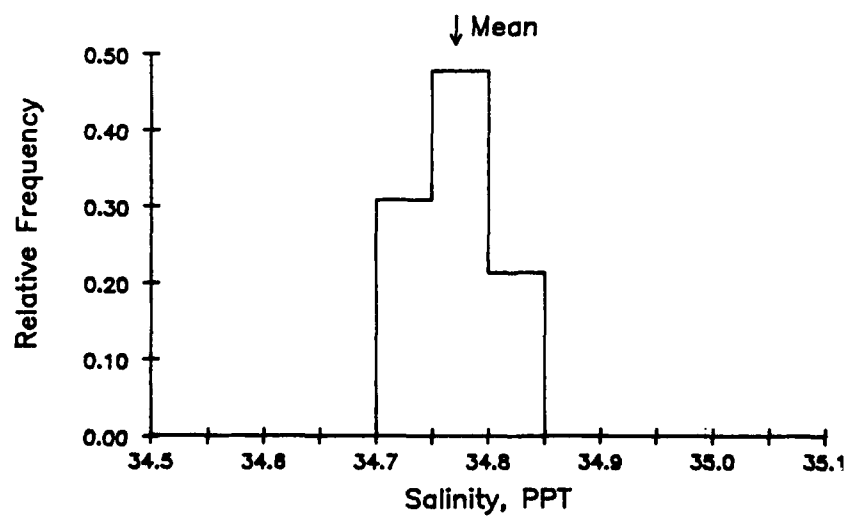
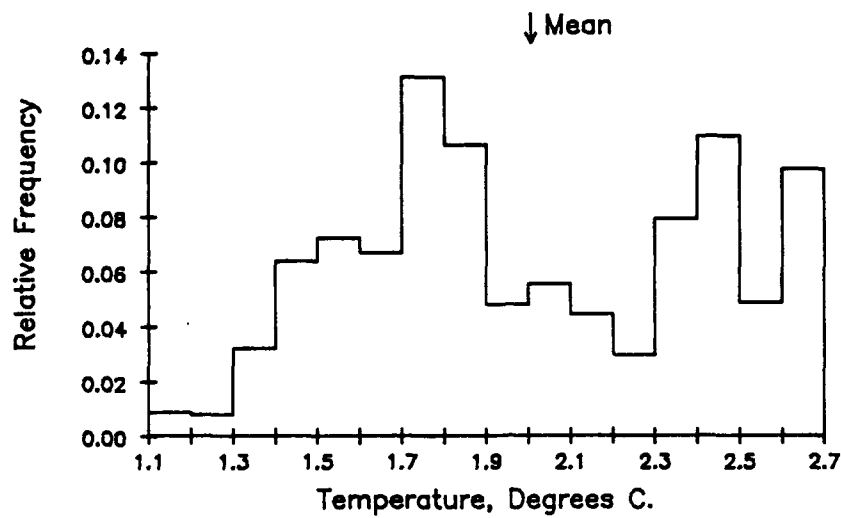
1580 METERS AT MOORING 6. TAPE 4578/5.



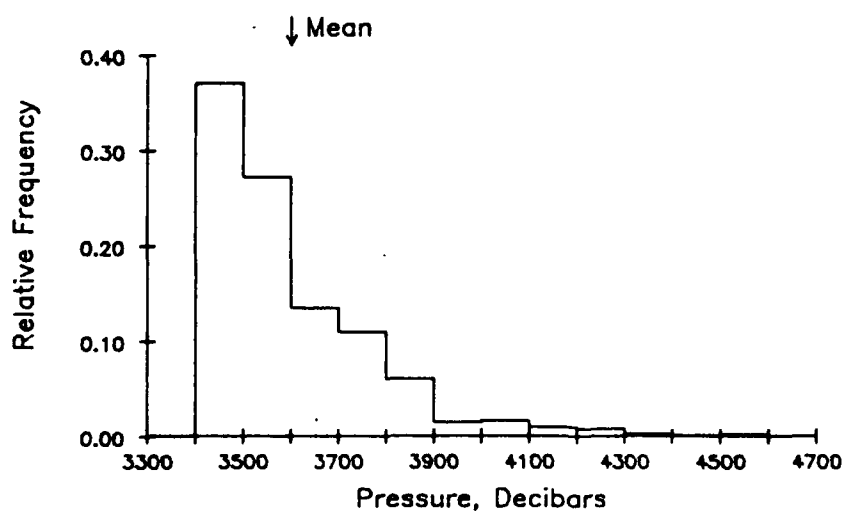
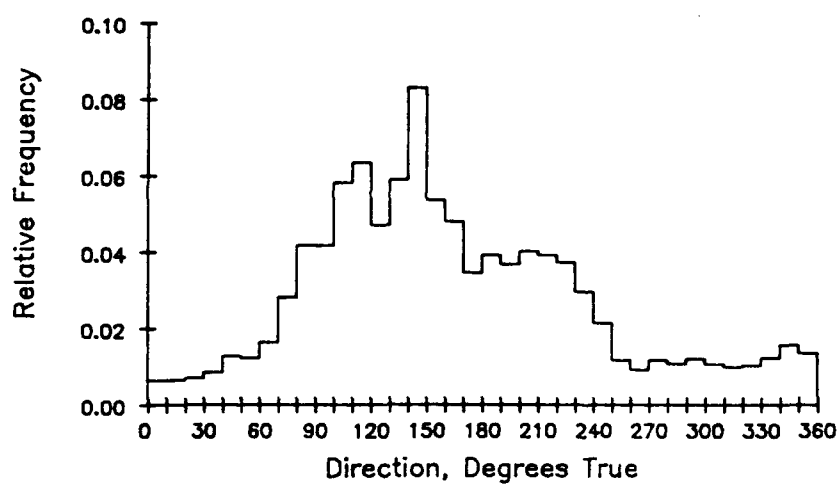
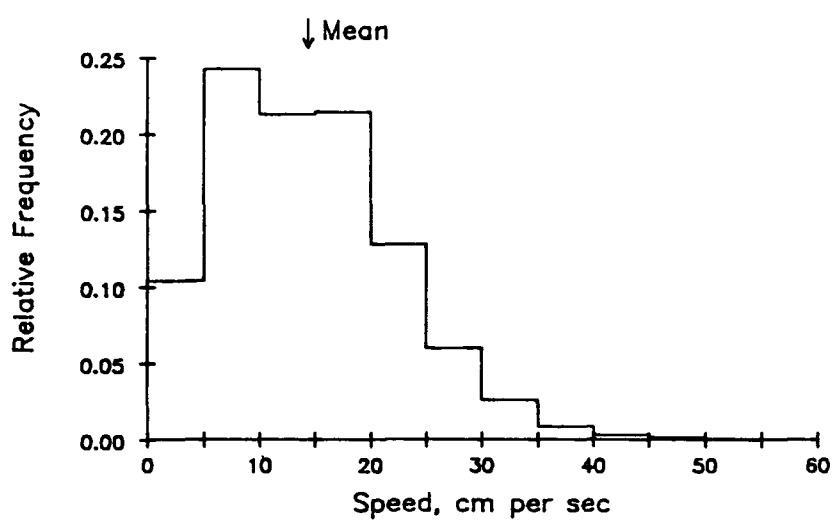
2330 METERS AT MOORING 6. TAPE 4581/5.



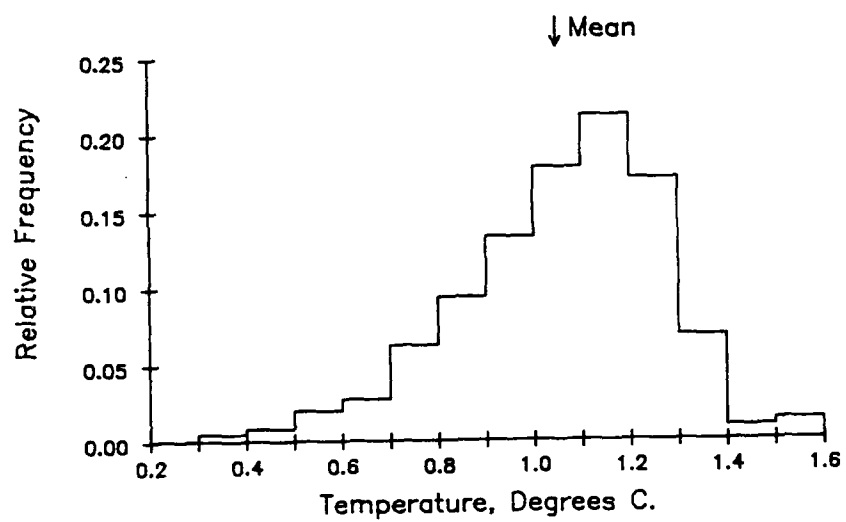
2330 METERS AT MOORING 6. TAPE 4581/5.



3385 METERS AT MOORING 6. TAPE 1539/38.



3385 METERS AT MOORING 6. TAPE 1539/38.



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ABYSSAL BOUNDARY CURRENT STUDIES CURRENT MEASUREMENTS

3/5

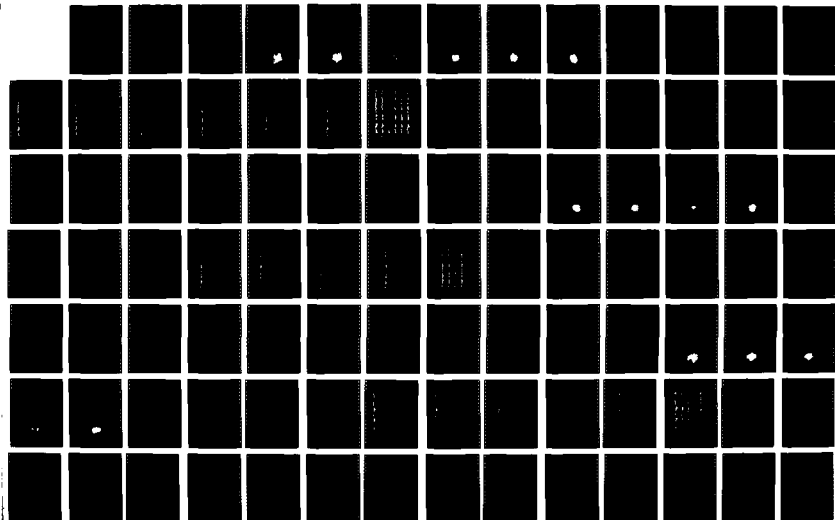
NORTH OF THE FALKLAND PLATEAU JANUARY 1986-1987(U)

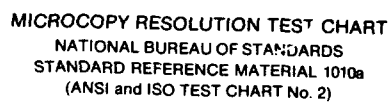
OREGON STATE UNIV CORVALLIS COLL OF OCEANOGRAPHY

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R D PILLSBURY ET AL SEP 89 DR-147 XN-0NR

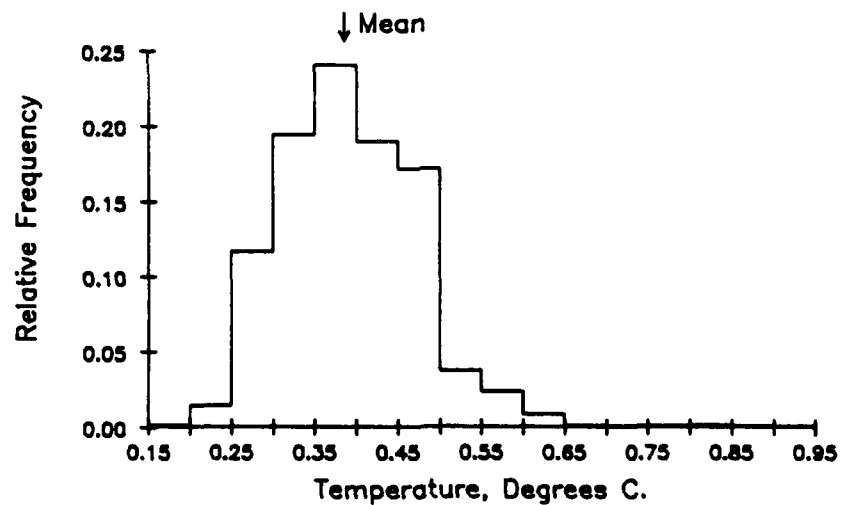
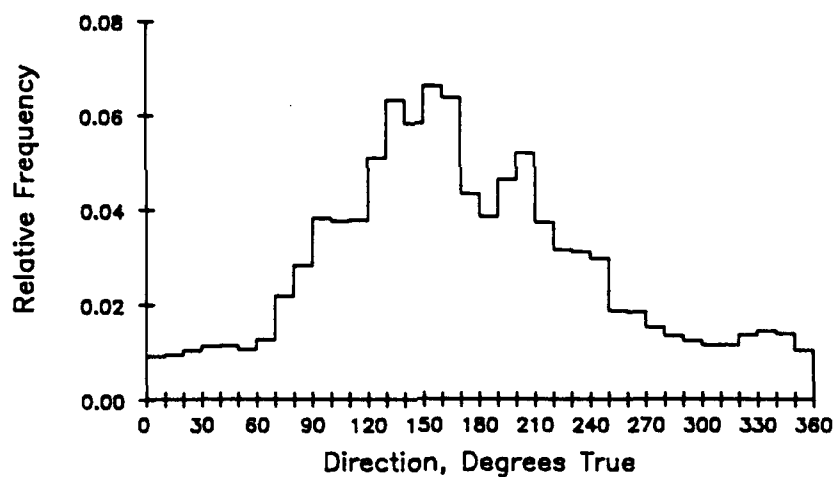
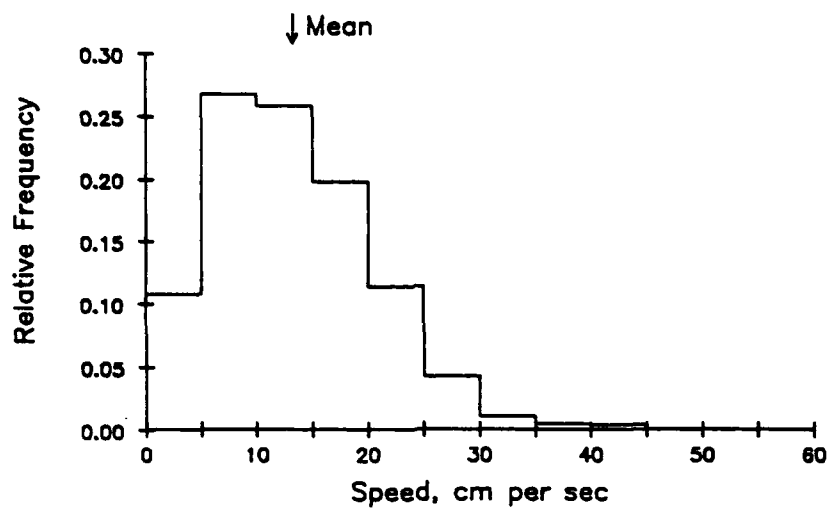
NL



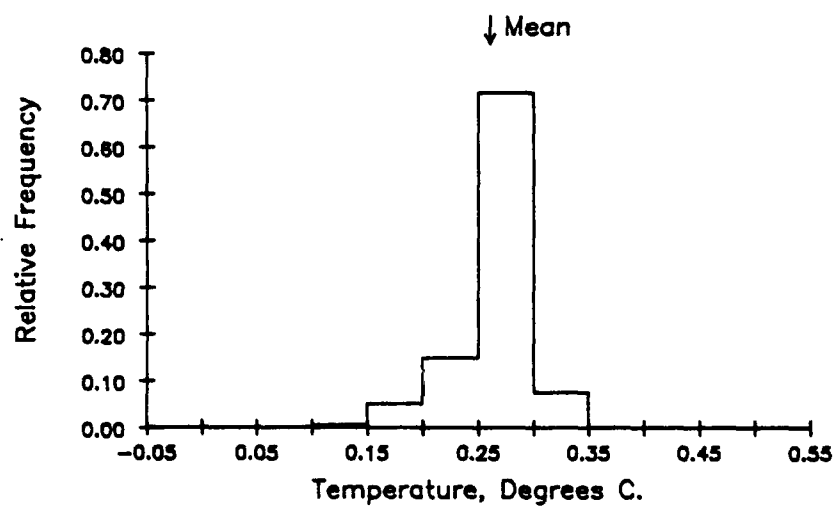
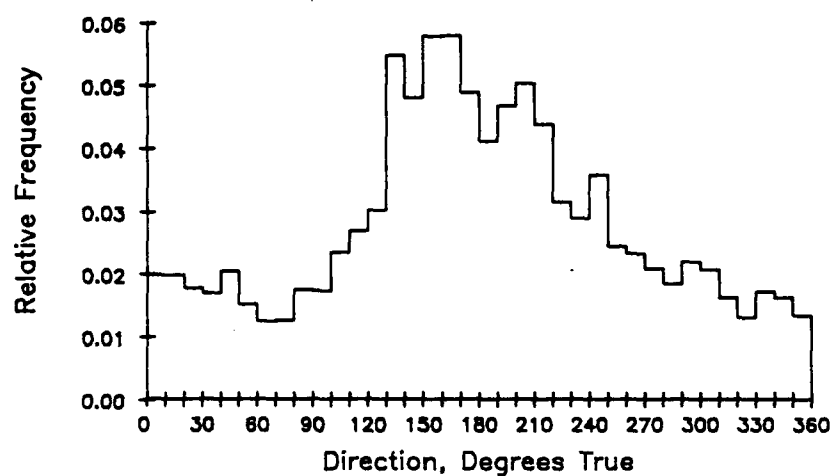
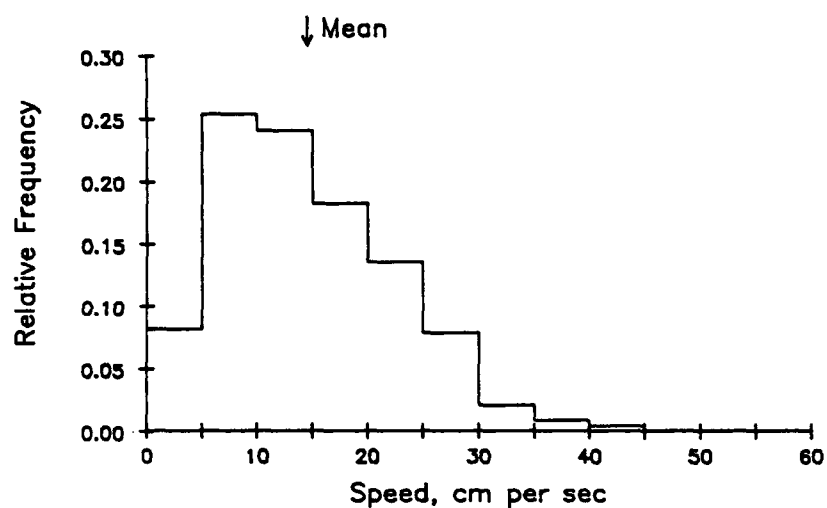


MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS
STANDARD REFERENCE MATERIAL 1010a
(ANSI and ISO TEST CHART No. 2)

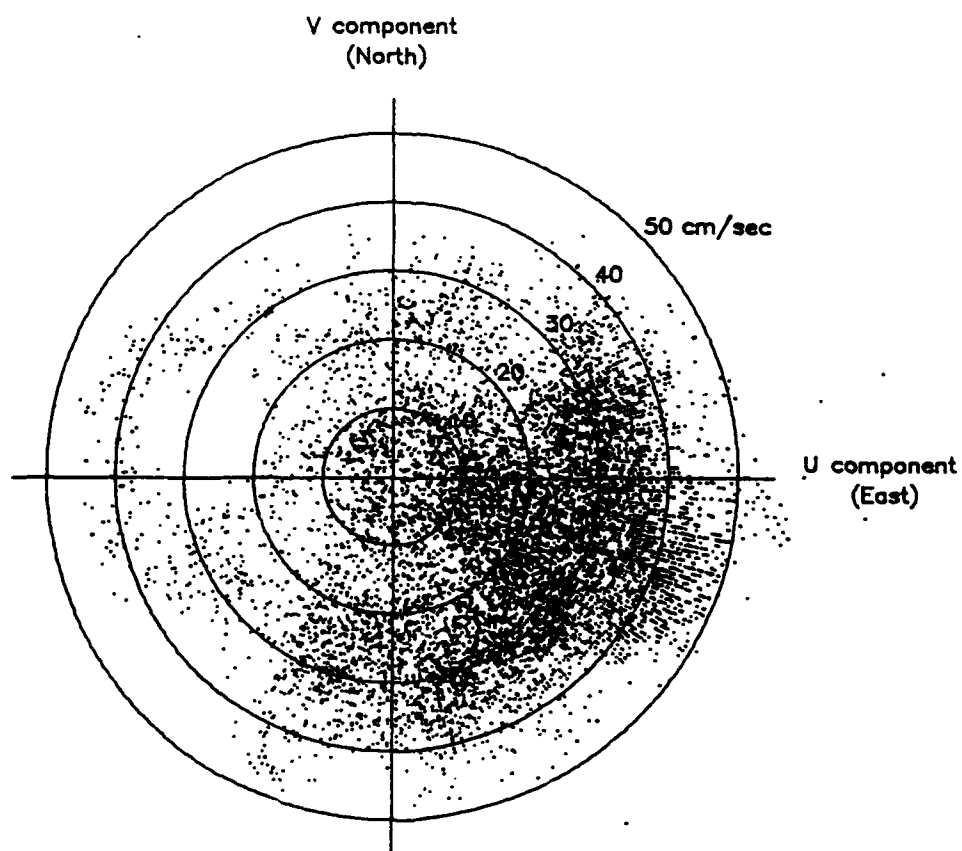
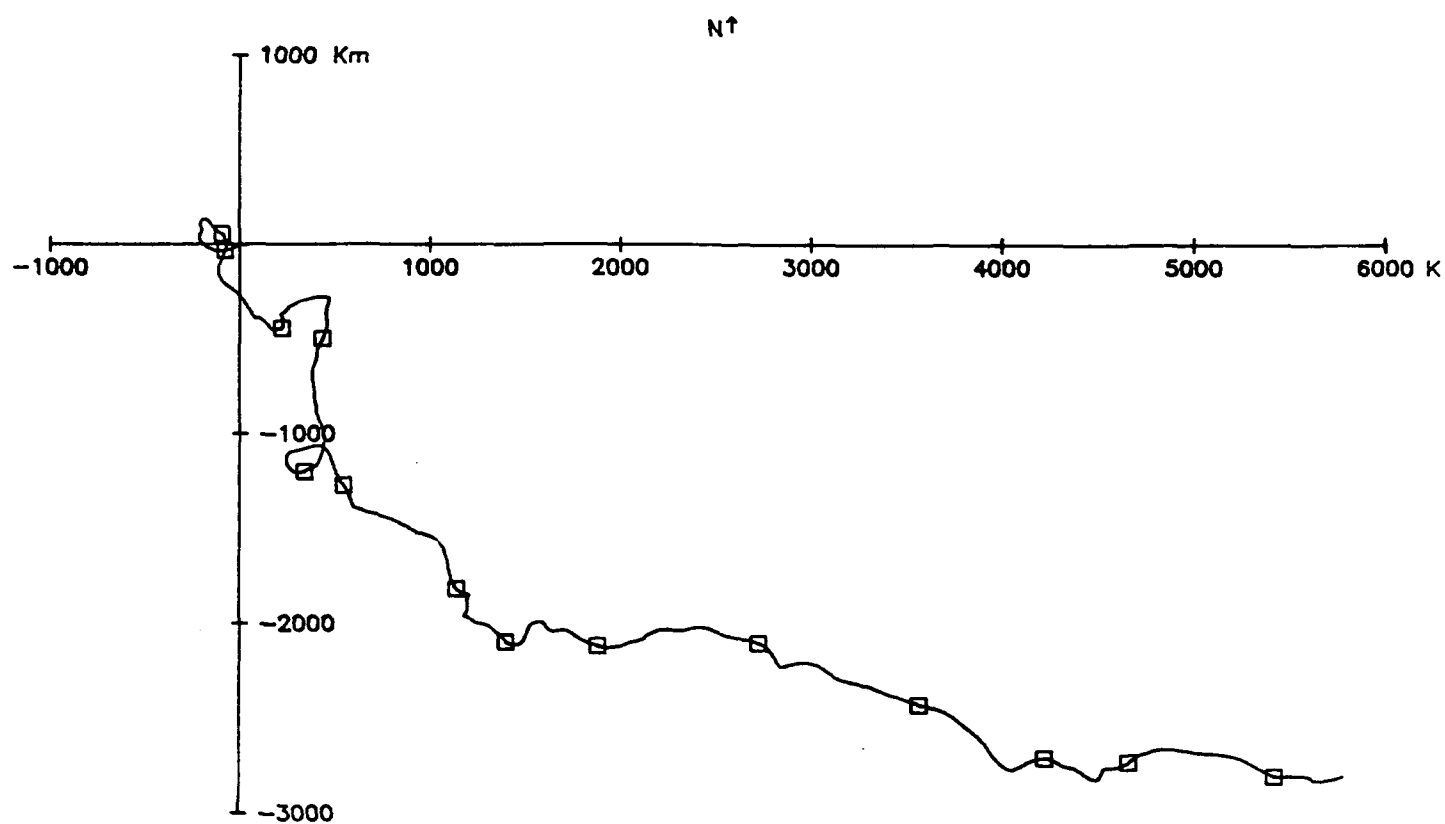
4385 METERS AT MOORING 6. TAPE 5330/11.



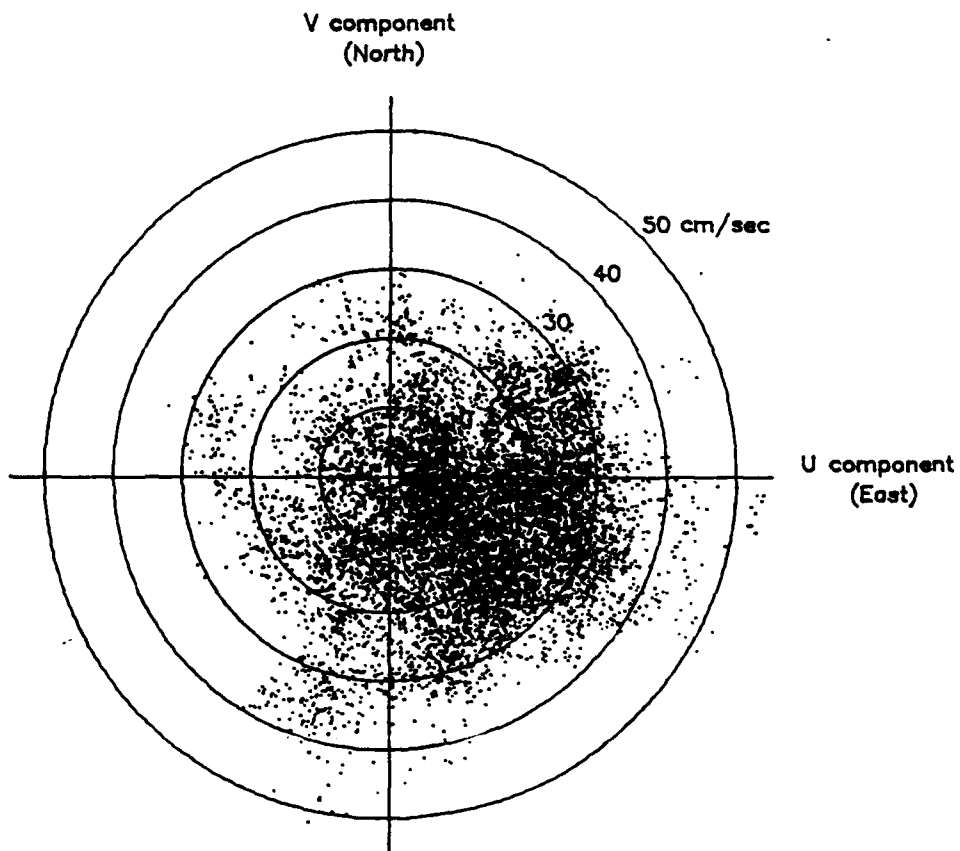
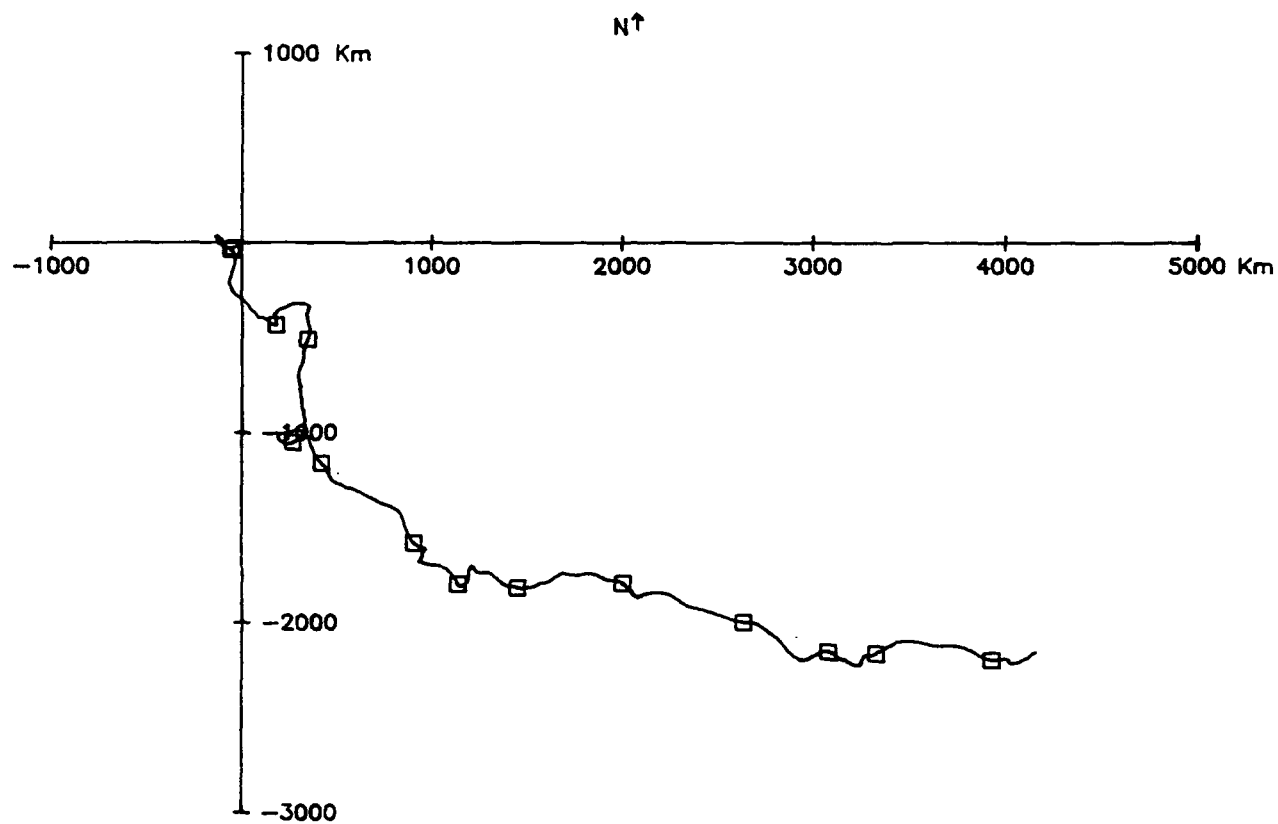
5815 METERS AT MOORING 6. TAPE 7407/5.



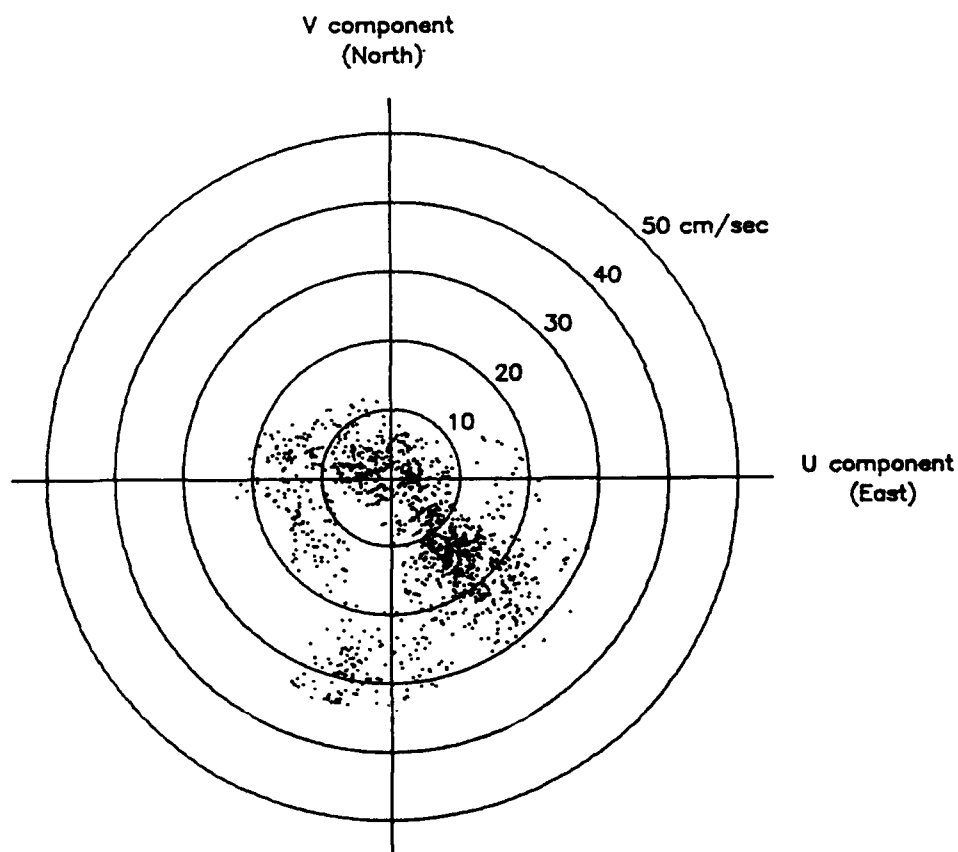
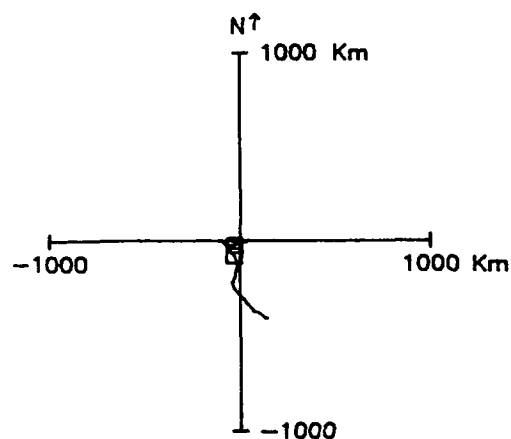
810M AT MOORING 6. 29 JAN 86 - 23 MAR 87. TAPE 7165/12.



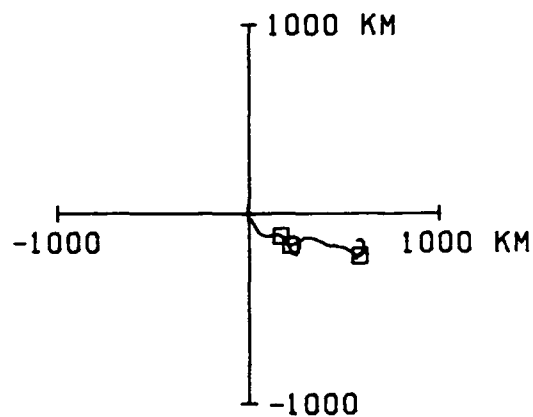
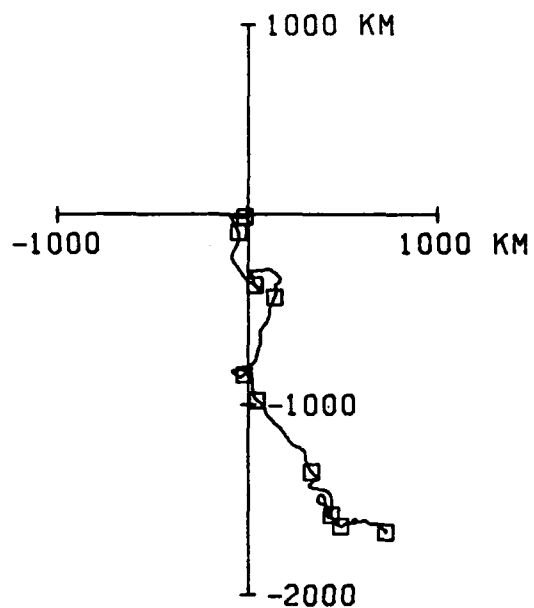
1580M AT MOORING 6. 29 JAN 86 - 25 MAR 87. TAPE 4578/5.



2330M AT MOORING 6. 29 JAN 86 - 29 MAR 86. TAPE 4581/5.

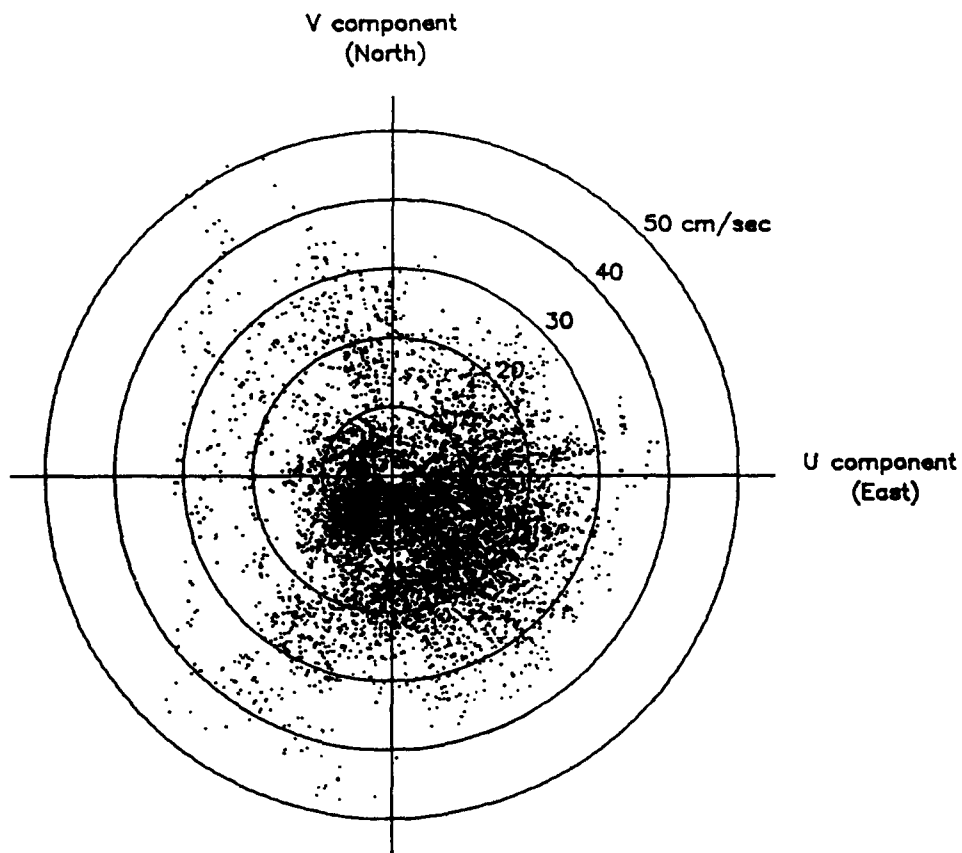


3385M AT MOORING 6. 29 JAN 86 - 25 MAR 87. TAPE 1539/38.

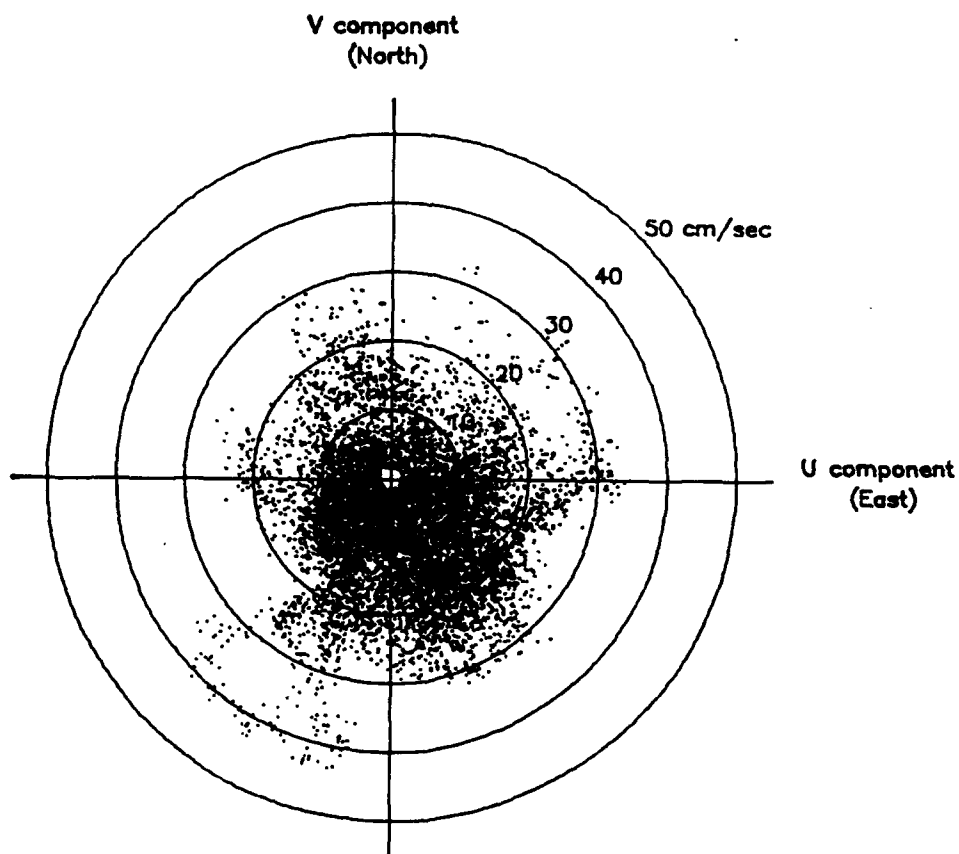
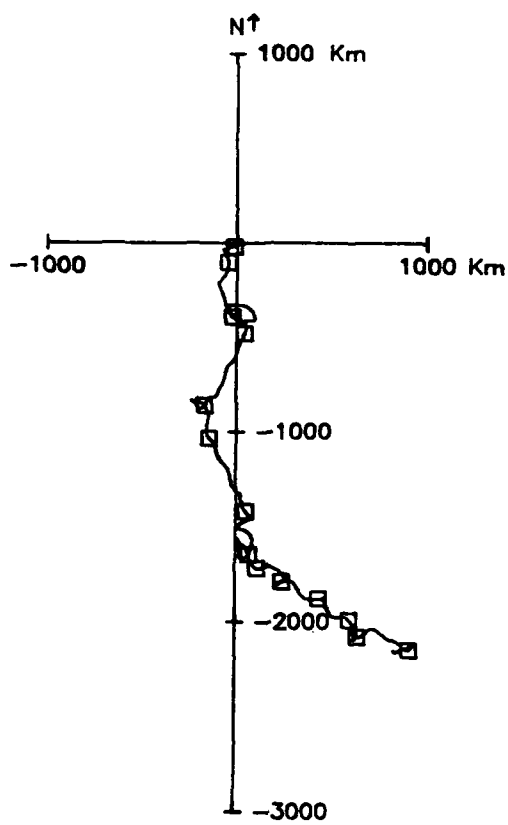


10 DEC 86 - 25 MAR 87.

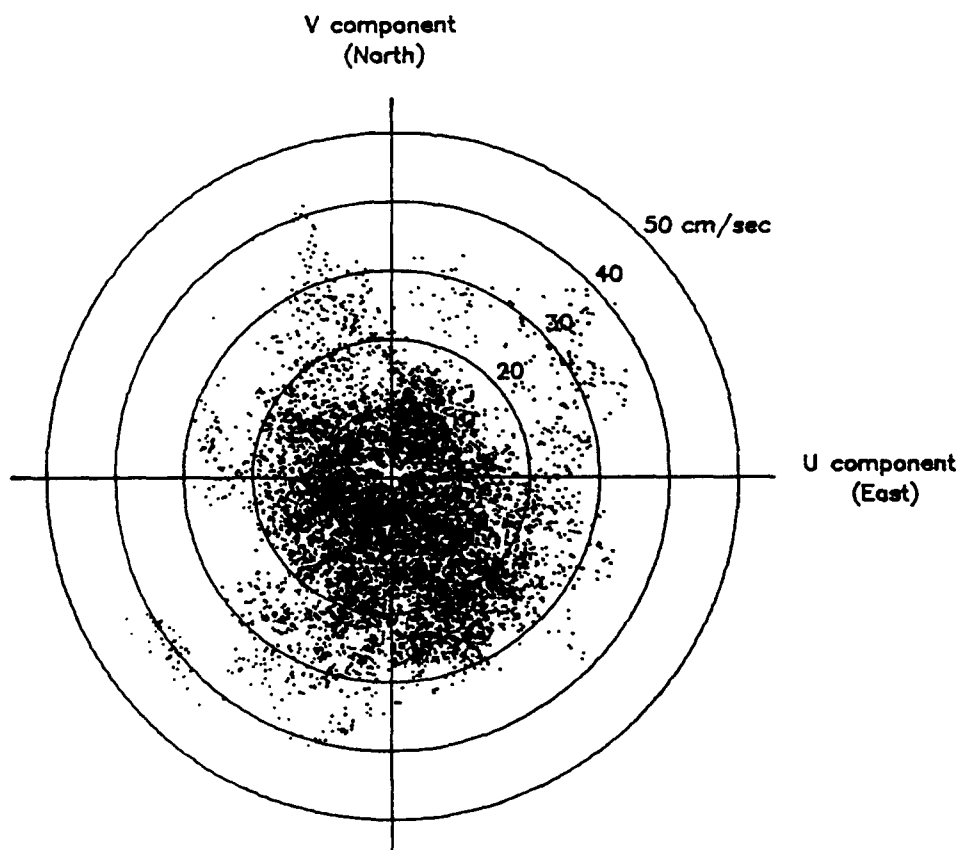
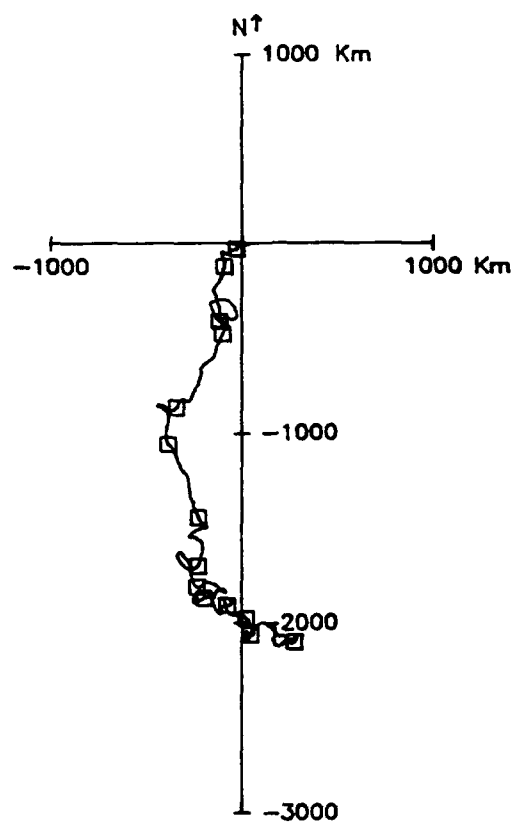
29 JAN 86 - 1 NOV 86.



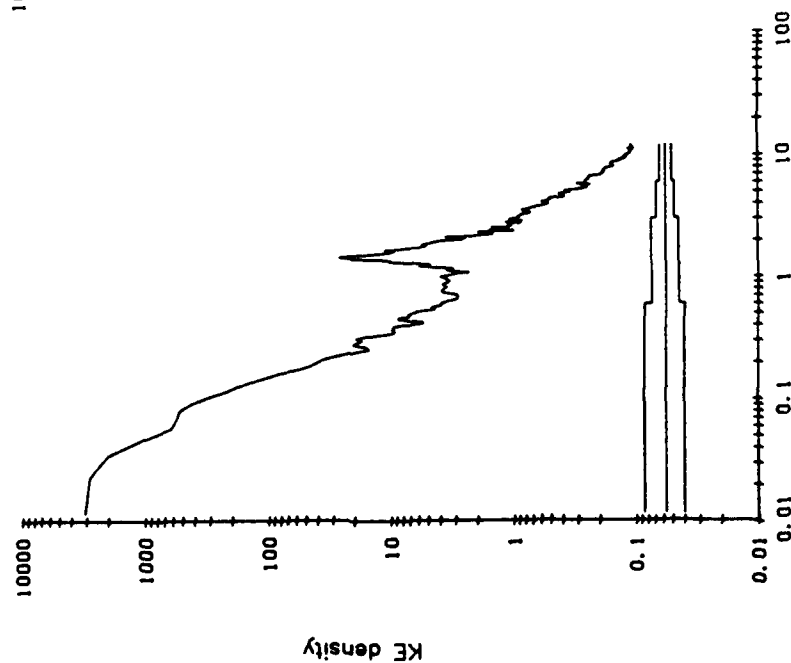
4385M AT MOORING 6. 29 JAN 86 - 17 MAR 87. TAPE 5330/11.



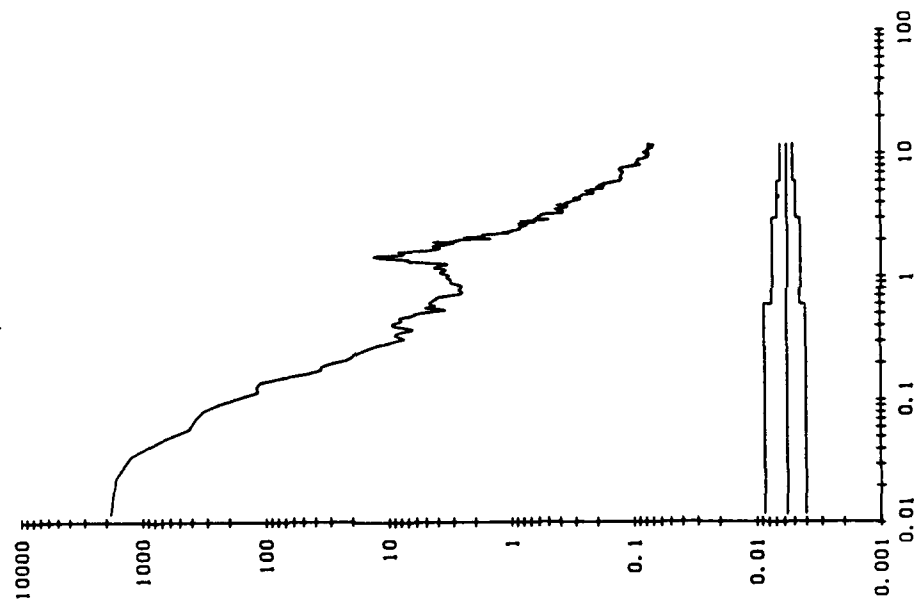
5815M AT MOORING 6. 29 JAN 86 - 25 MAR 87. TAPE 7407/5.



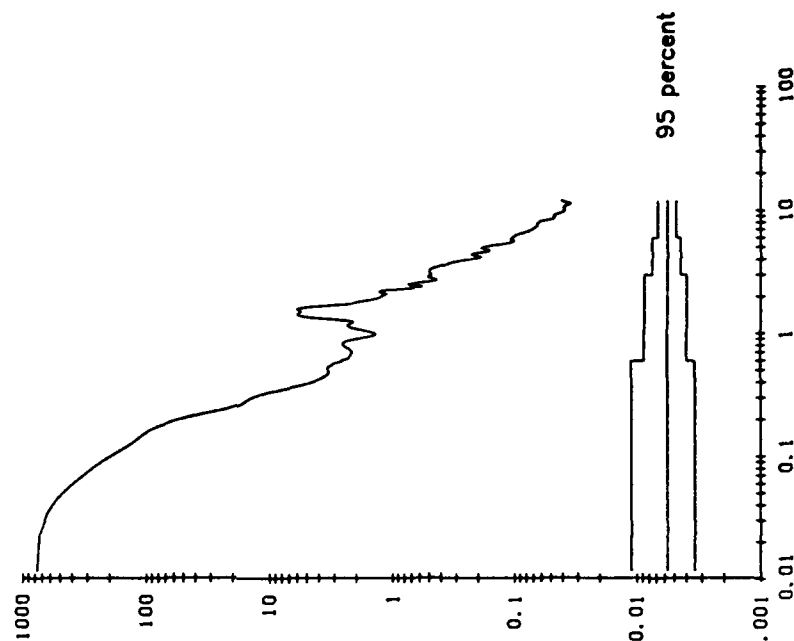
Unfiltered current. 810 m at Mooring 6.
Both components



Unfiltered current. 1580 m at Mooring 6.
Both components



Unfiltered current. 2330 m at Mooring 6.
Both components



Unfiltered current.
Both components

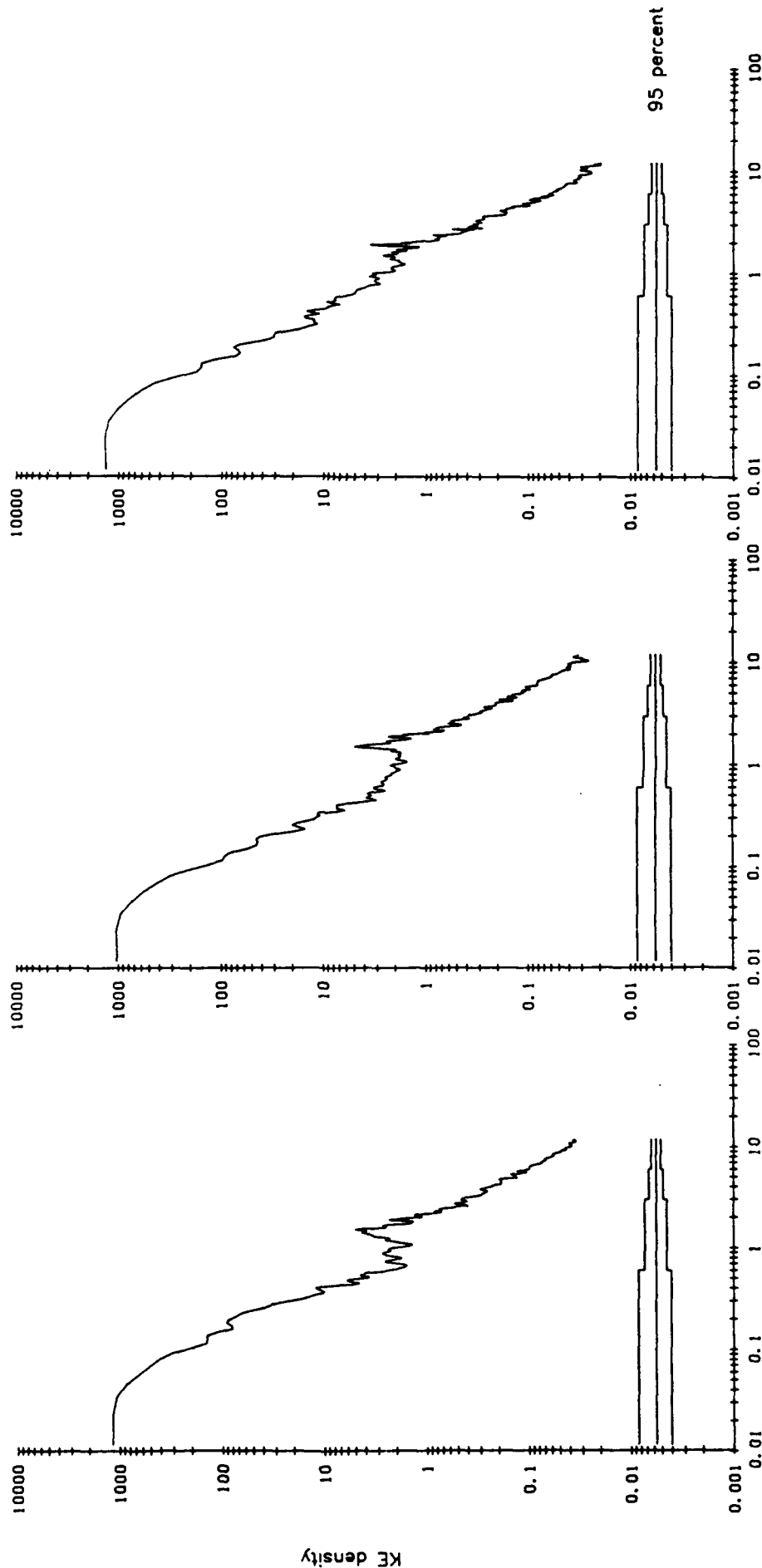
3385 m at Mooring 6.

Unfiltered current.
Both components

4385 m at Mooring 6.

Unfiltered current.
Both components

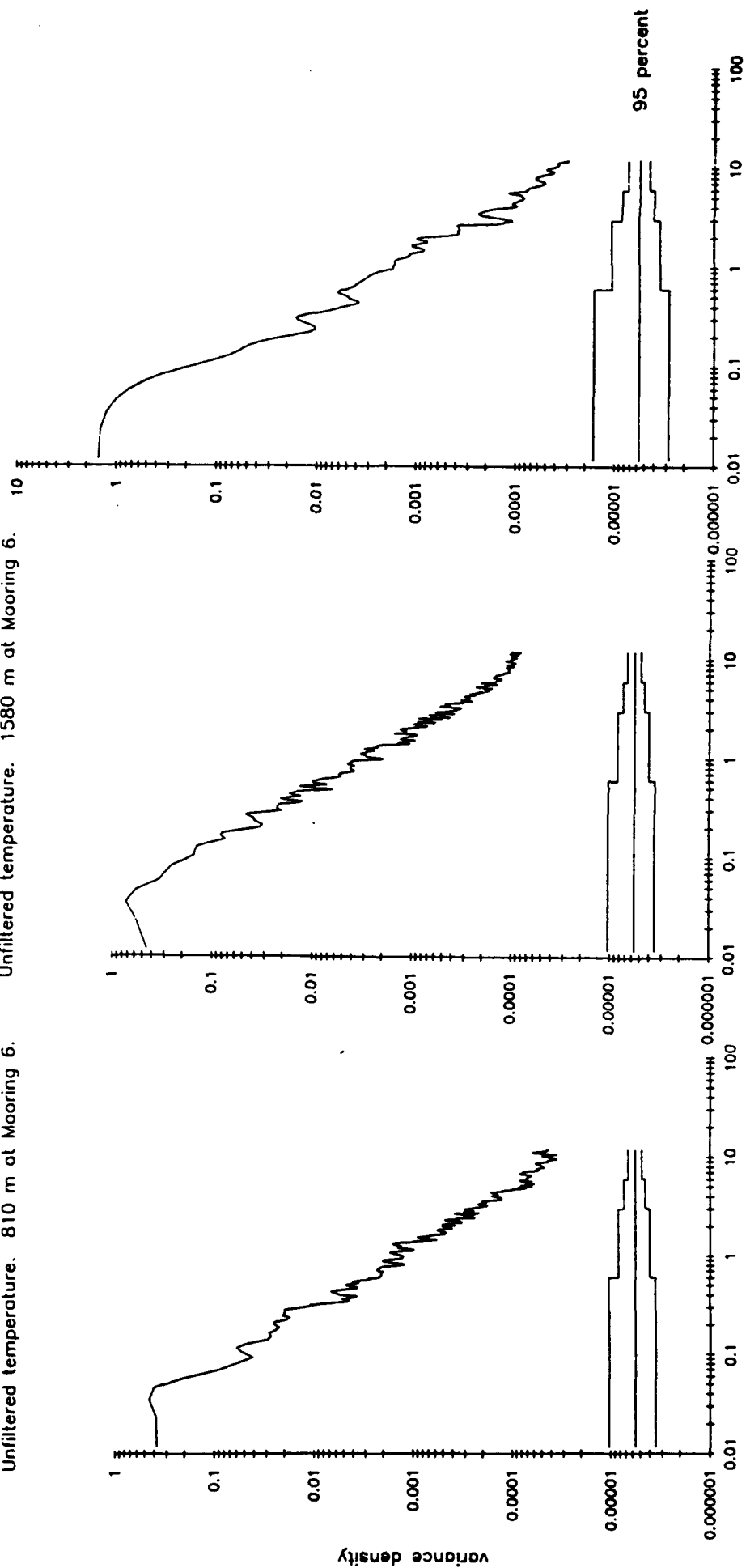
5815 m at Mooring 6.



Unfiltered temperature. 2330 m at Mooring 6.

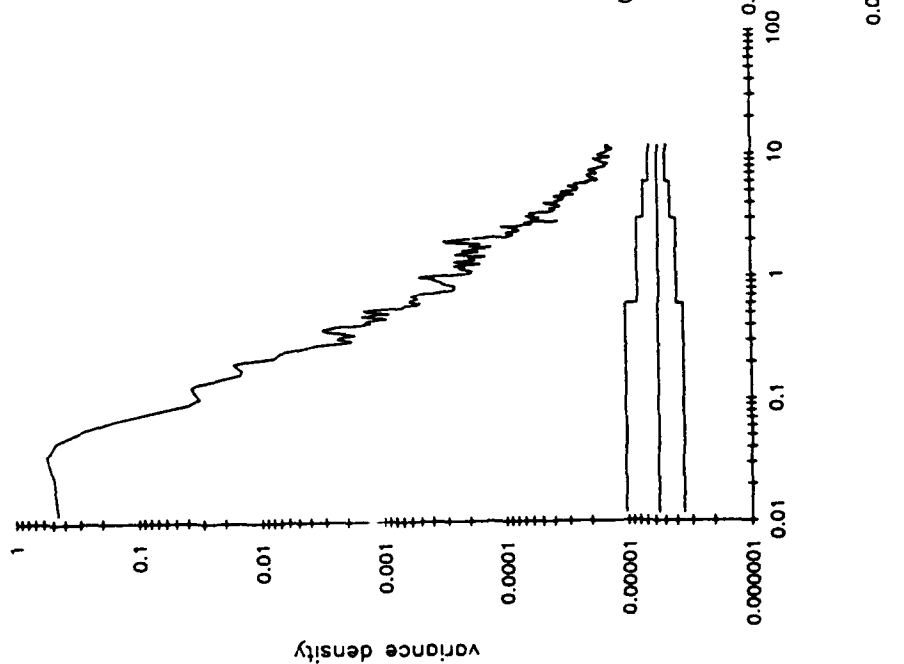
Unfiltered temperature. 1580 m at Mooring 6.

Unfiltered temperature. 810 m at Mooring 6.

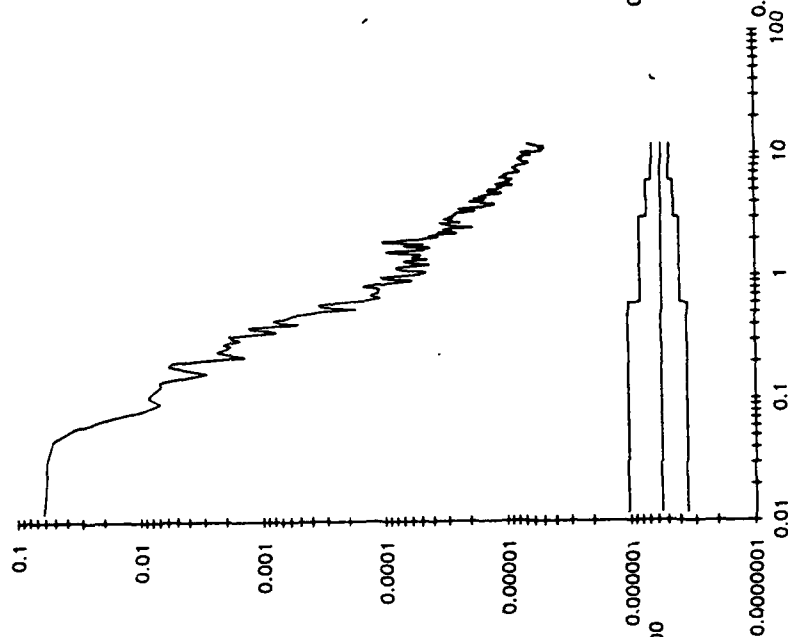


frequency, cycles per day

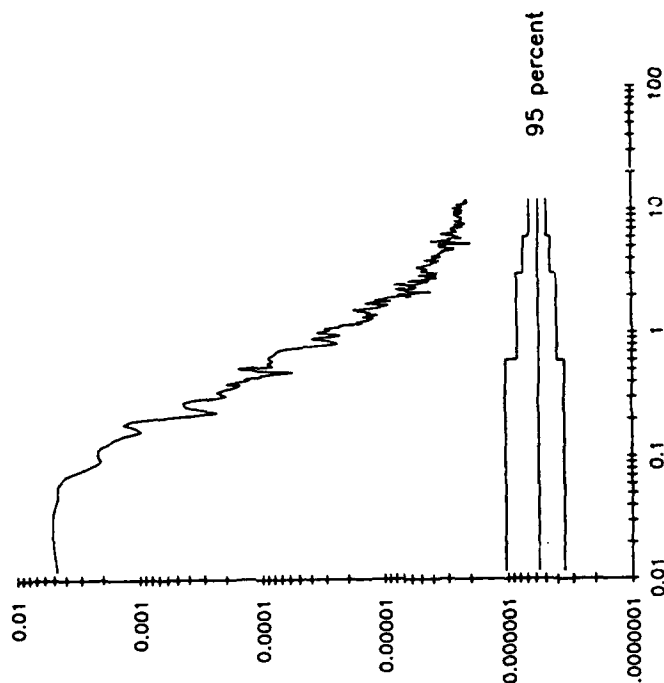
Unfiltered temperature. 3385 m at Mooring 6.



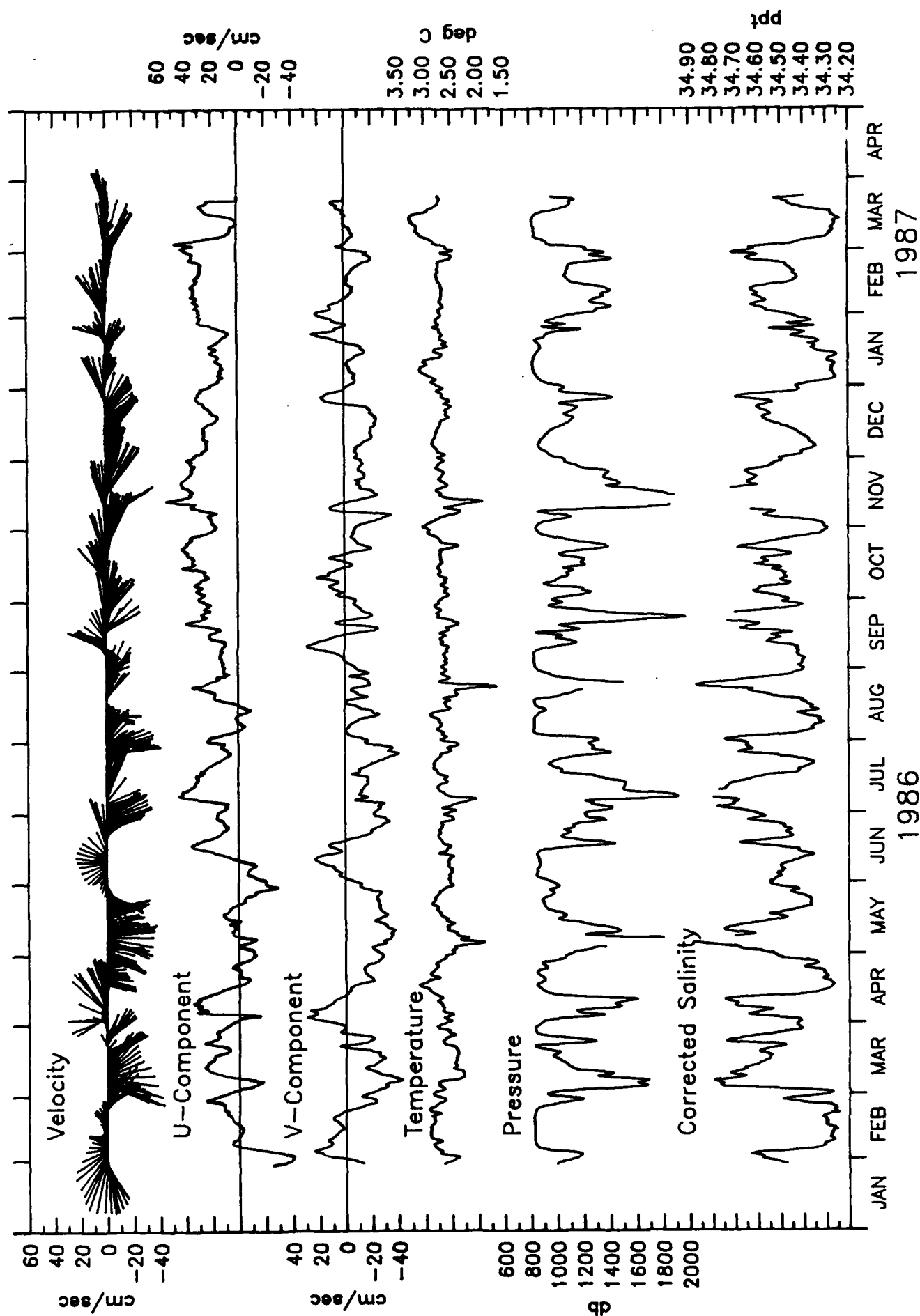
Unfiltered temperature. 4385 m at Mooring 6.



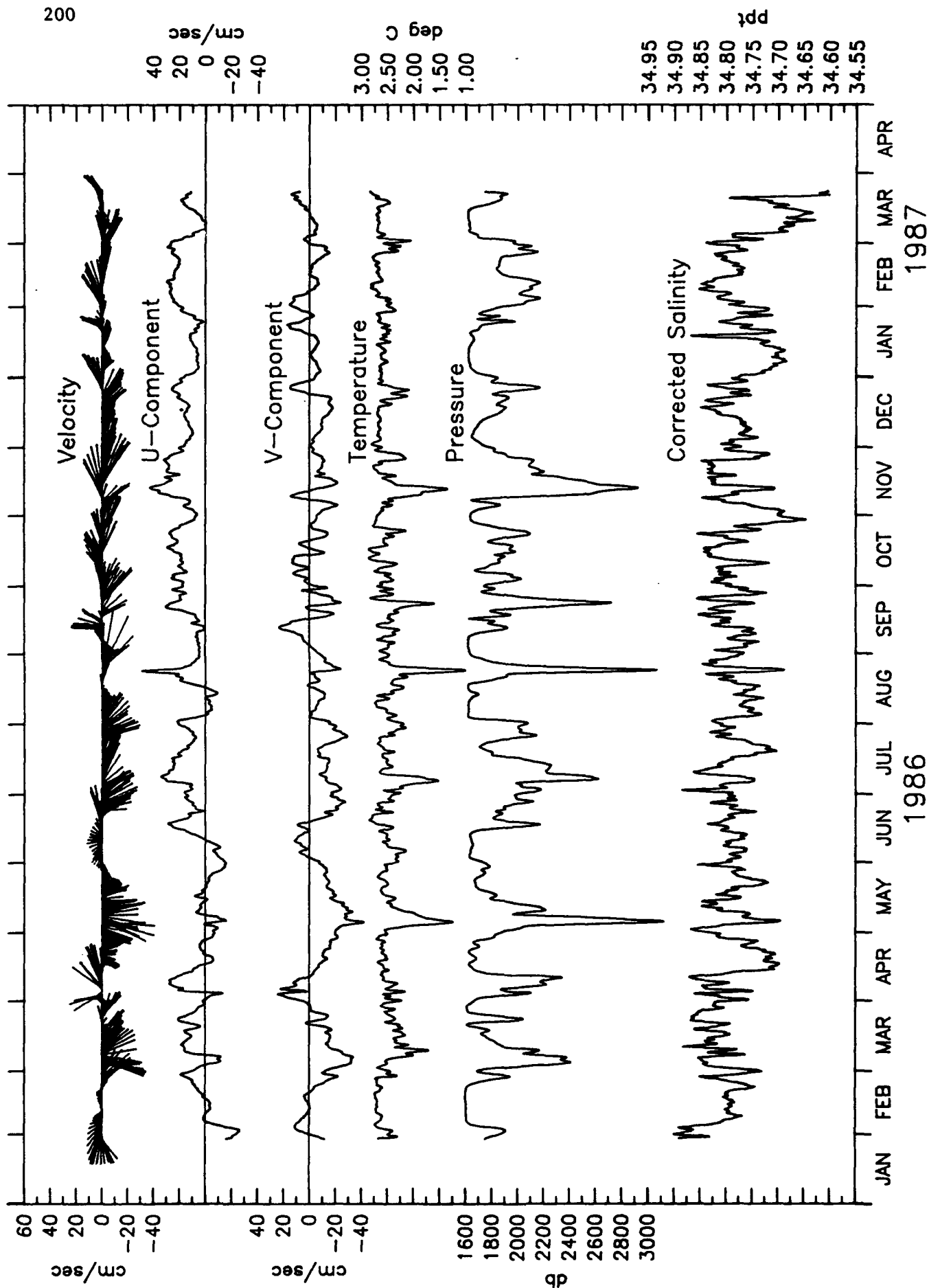
Unfiltered temperature. 5815 m at Mooring 6.



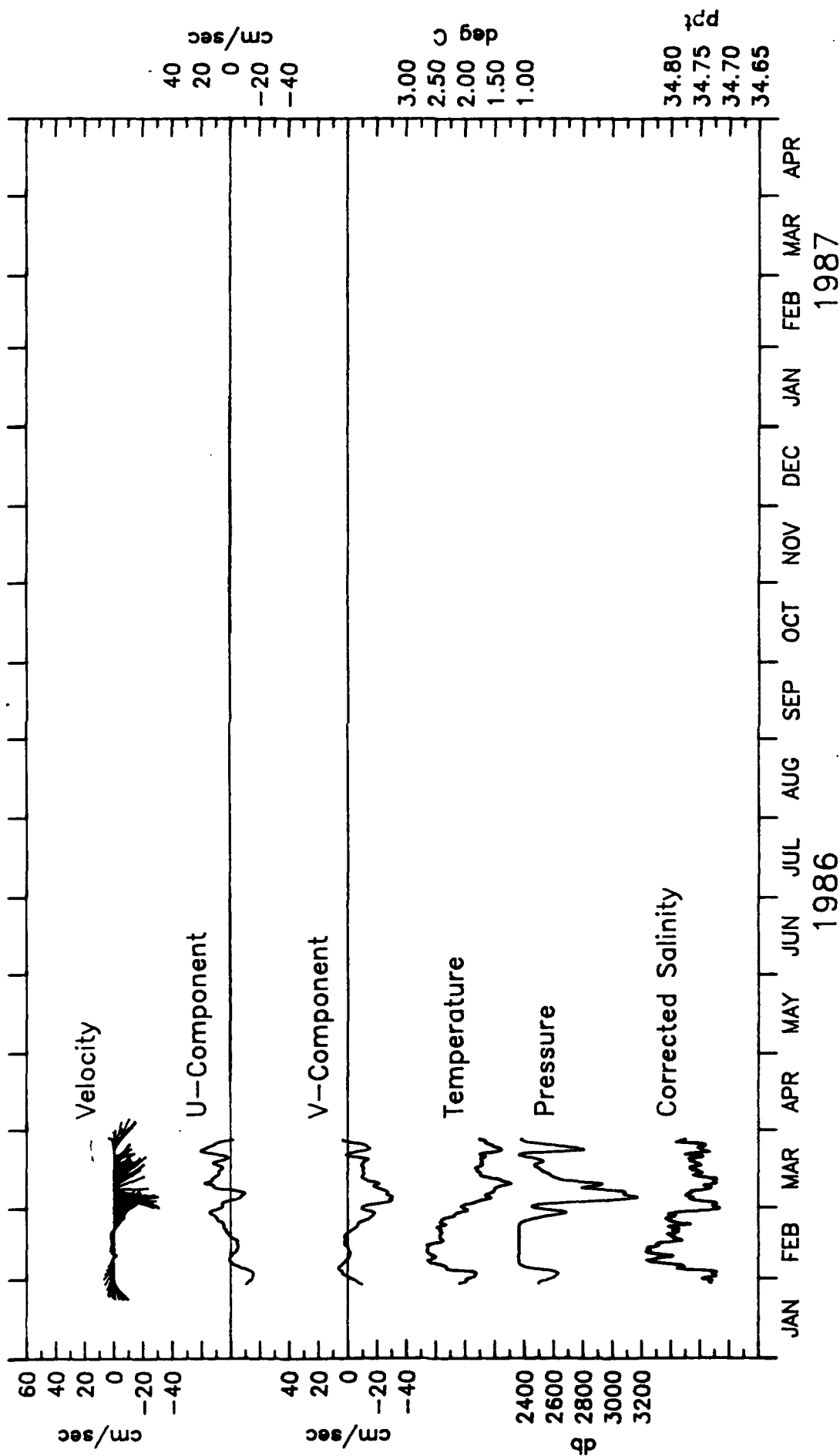
frequency, cycles per day



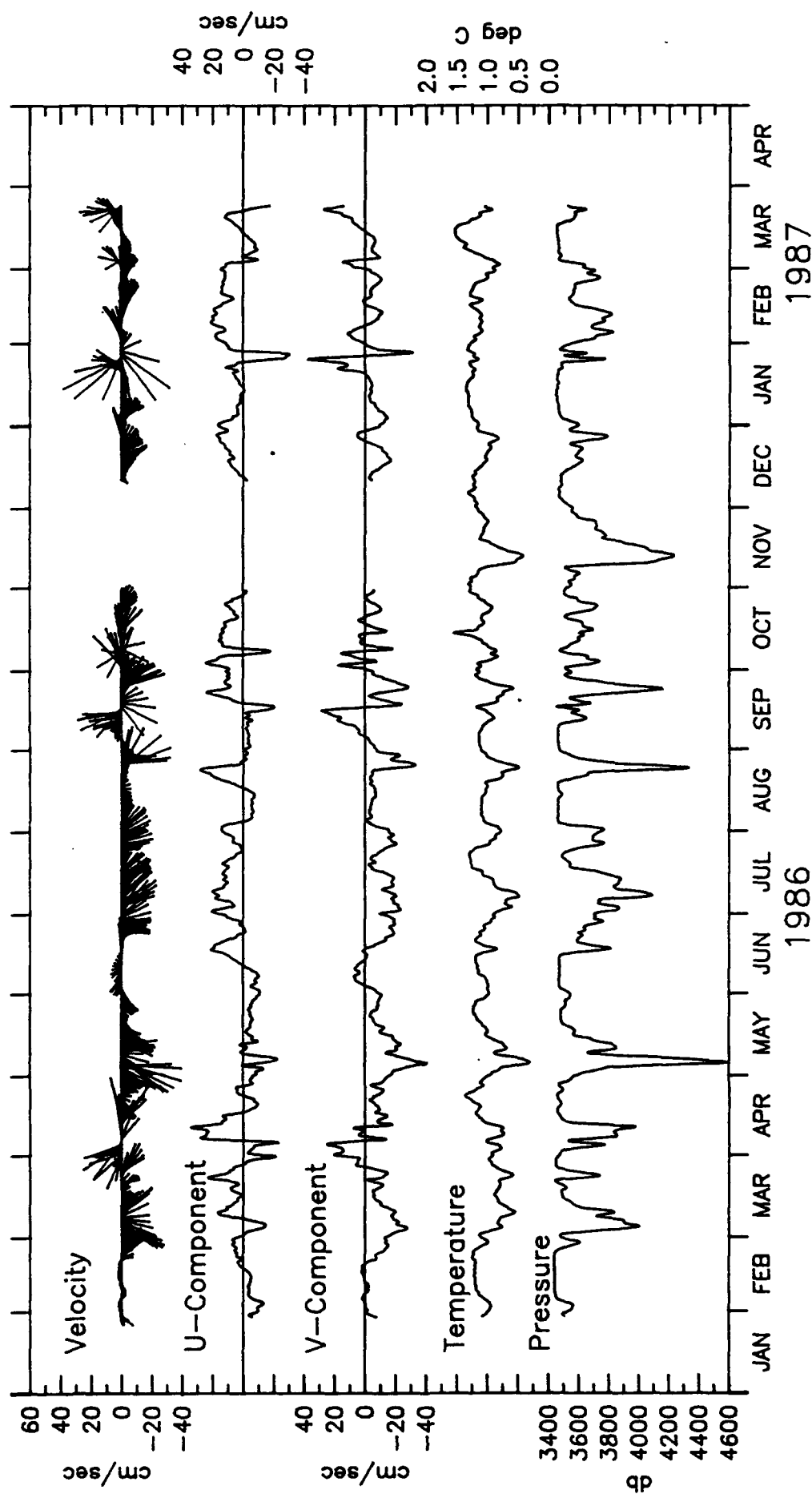
810 M AT MOORING 6.



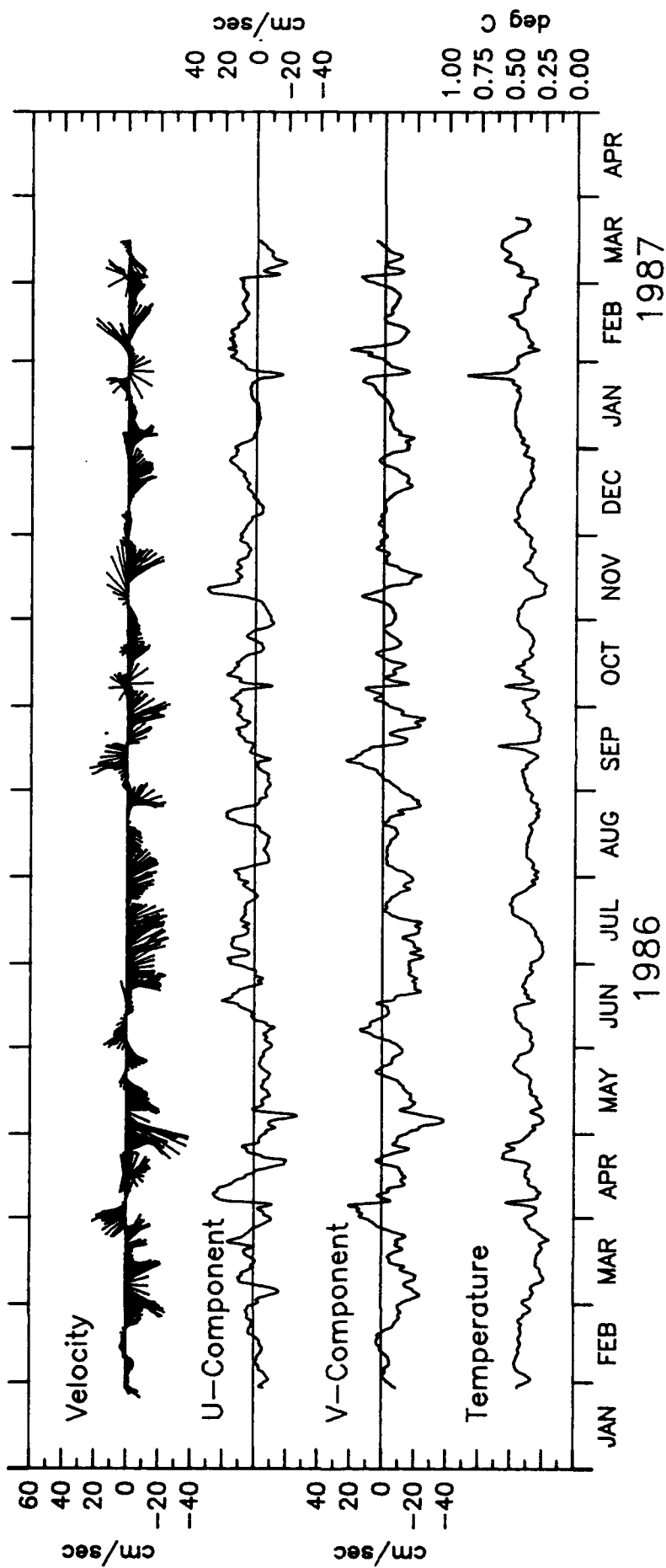
1580 M AT MOORING 6.



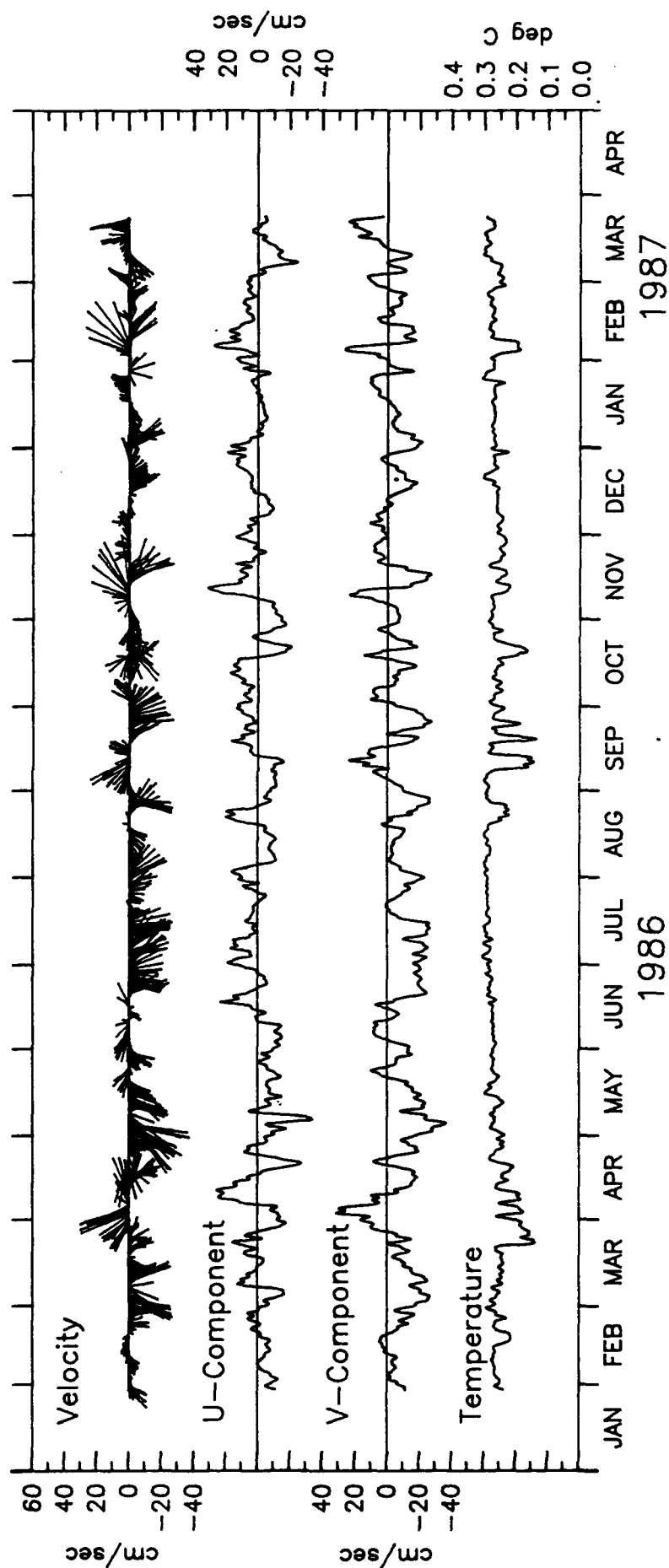
2330 M AT MOORING 6.



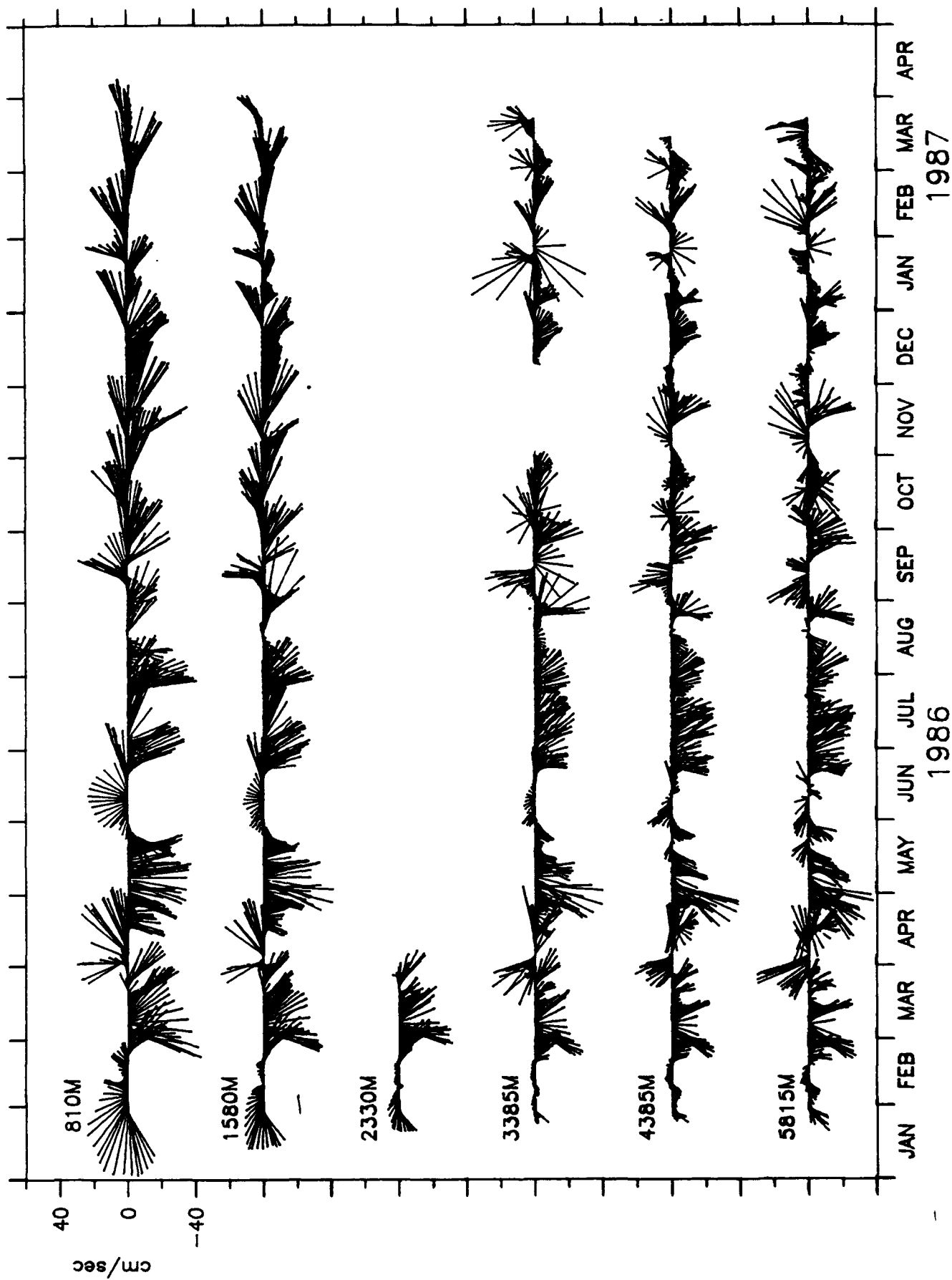
3385M AT MOORING 6.



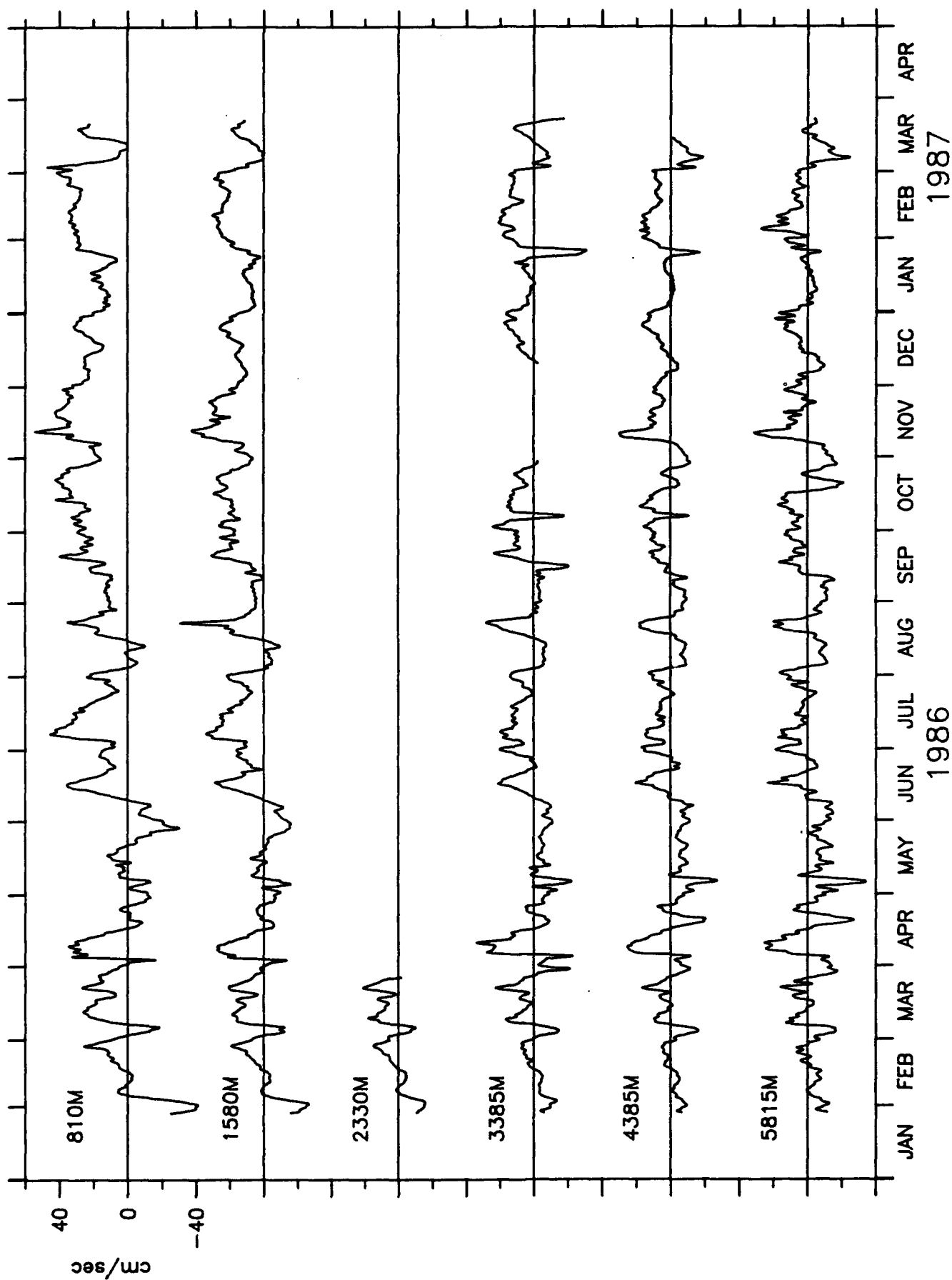
4385M AT MOORING 6.



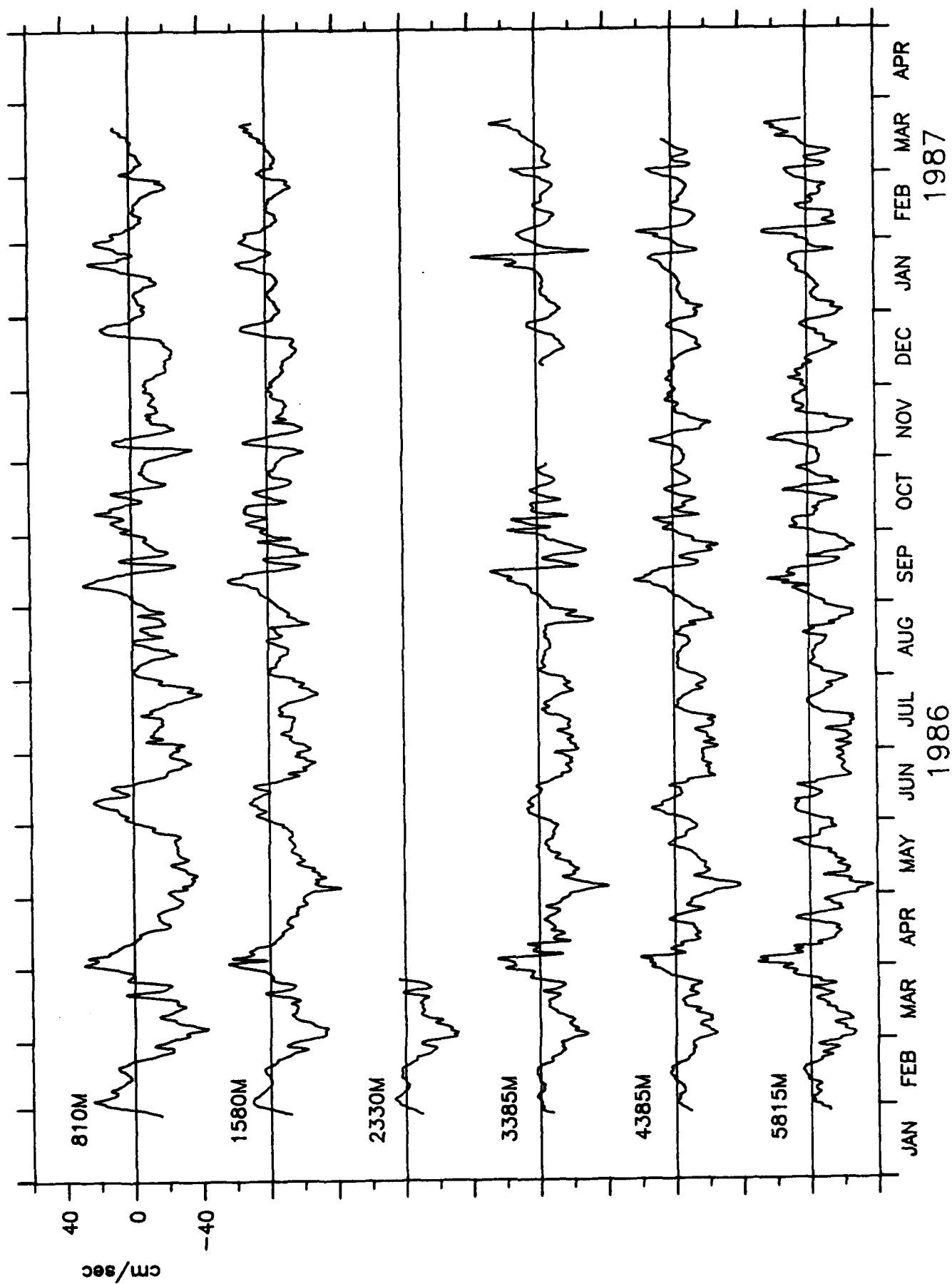
5815 M AT MOORING 6.



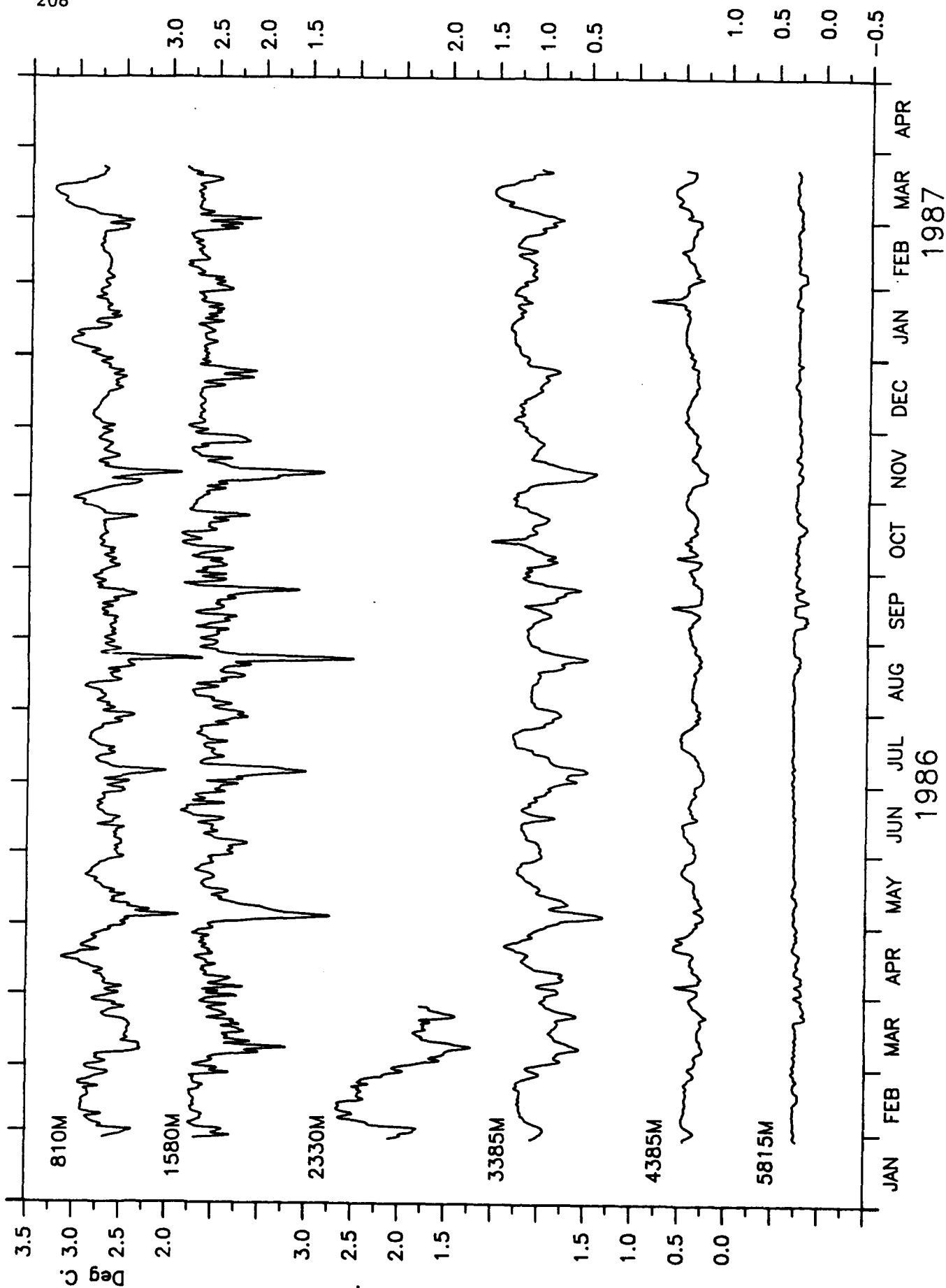
VELOCITY, MOORING 6.



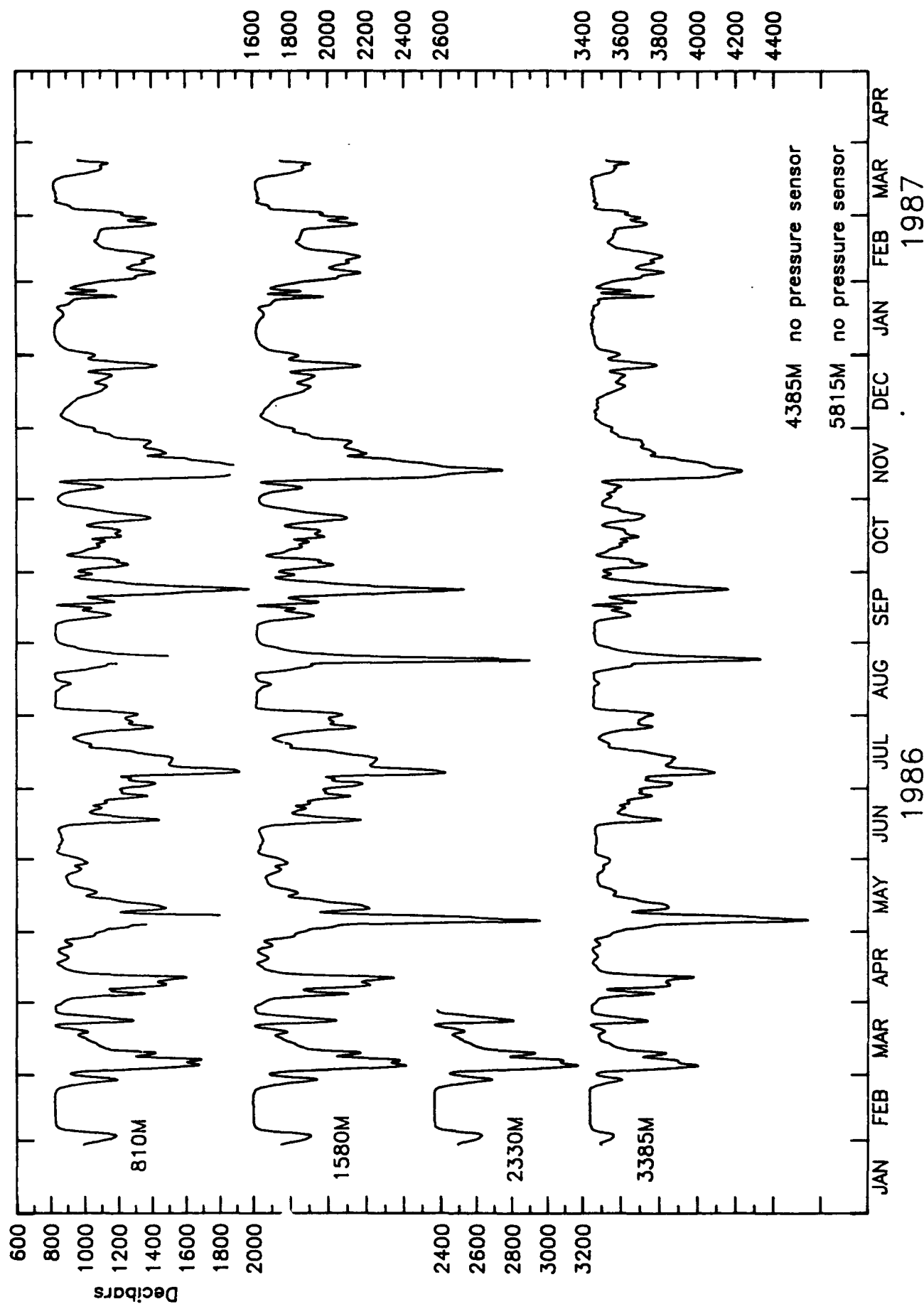
U-COMPONENT, MOORING 6.



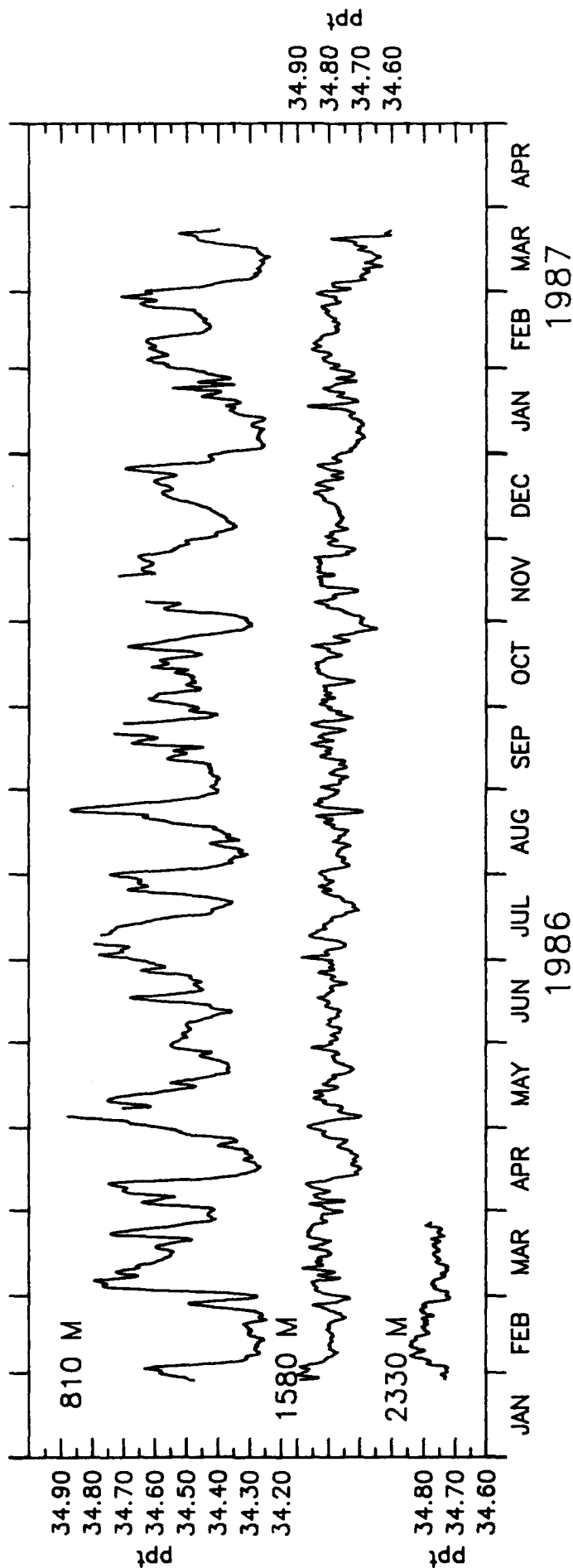
V-COMPONENT, MOORING 6.



TEMPERATURE, MOORING 6.



PRESSURE, MOORING 6.



CORRECTED SALINITY AT MOORING 6.

MOORING 7

47°28.90'S, 41°13.60'W

1986 1987
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR

2365 M

S
e
t
p

3360 M

S
e
t
p

4360 M

S
e
t
p

5890 M

S
e
t
p

DATA RETURN FROM MOORING 7.

MOORING 7. UNFILTERED HOURLY DATA.

2365M AT MOORING 7. 0800 29 JAN 86 - 0900 24 MAR 87. TAPE 7209/11.

| | MEAN | SD | MIN | MAX | LENGTH | ENDS AT |
|---|---------|--------|---------|---------|--------|------------------|
| S | 13.03 | 8.09 | 0.80 | 43.10 | 10058 | (0900 24 MAR 87) |
| U | 7.26 | 9.10 | -25.40 | 39.90 | 10058 | (0900 24 MAR 87) |
| V | -6.09 | 7.90 | -39.70 | 30.70 | 10058 | (0900 24 MAR 87) |
| T | 2.36 | 0.31 | 0.75 | 2.94 | 10058 | (0900 24 MAR 87) |
| P | 2473.86 | 133.08 | 2394.10 | 3488.00 | 10058 | (0900 24 MAR 87) |

3360M AT MOORING 7. 0800 29 JAN 86 - 1500 24. MAR 87. TAPE 1540/40.

| | | | | | | |
|---|---------|--------|---------|---------|-------|------------------|
| S | 11.28 | 7.45 | 0.80 | 48.70 | 10064 | (1500 24 MAR 87) |
| U | 5.33 | 7.85 | -17.90 | 41.40 | 10064 | (1500 24 MAR 87) |
| V | -5.37 | 8.00 | -47.30 | 31.50 | 10064 | (1500 24 MAR 87) |
| T | 1.26 | 0.23 | 0.33 | 1.82 | 10064 | (1500 24 MAR 87) |
| P | 3499.99 | 131.17 | 3412.00 | 4382.00 | 10064 | (1500 24 MAR 87) |

4360M AT MOORING 7. 0800 29 JAN 86 - 0400 20 SEP 86. TAPE 1542/44.

| | | | | | | |
|---|---------|-------|---------|---------|------|------------------|
| S | 12.49 | 9.02 | 0.80 | 40.50 | 5150 | (2100 31 AUG 86) |
| U | 5.69 | 9.69 | -21.50 | 34.60 | 3979 | (0200 14 JUL 86) |
| V | -4.93 | 8.74 | -40.50 | 25.40 | 3979 | (0200 14 JUL 86) |
| T | 0.45 | 0.09 | 0.23 | 0.71 | 5481 | (1600 14 SEP 86) |
| P | 4538.51 | 93.52 | 4437.00 | 5044.00 | 5613 | (0400 20 SEP 86) |

5890M AT MOORING 7. 0800 29 JAN 86 - 0900 24 MAR 87. TAPE 7408/7.

| | | | | | | |
|---|-------|------|--------|-------|-------|------------------|
| S | 12.53 | 7.35 | 0.80 | 39.10 | 10058 | (0900 24 MAR 87) |
| U | 4.57 | 8.69 | -25.90 | 35.80 | 10058 | (0900 24 MAR 87) |
| V | -5.46 | 9.20 | -38.30 | 28.80 | 10058 | (0900 24 MAR 87) |
| T | 0.32 | 0.02 | 0.17 | 0.37 | 10058 | (0900 24 MAR 87) |

(2365 M) SPEED BRIDGED, LINES:

6150 - 6226 (1300 12 OCT 86 - 1700 15 OCT 86)

(3360 M) RECORD CONTAINS 6 EXTRA CYCLES, CLOCK PROBLEM,
SPEED BRIDGED, LINES:

6796 - 6974 (1100 8 NOV 86 - 2100 15 NOV 86)

7984 - 8087 (2300 27 DEC 86 - 0600 1 JAN 87)

8153 - 8265 (0000 4 JAN 87 - 1600 8 JAN 87)

(4360 M) SHORT RECORD DUE TO BATTERY FAILURE.

(Speed, u, and v are given in cm/sec, Temperature in °C, Pressure in DB).

MOORING 7. LLP FILTERED 6-HOURLY DATA.

2365M AT MOORING 7. 1200 30 JAN 86 - 0600 23 MAR 87. TAPE 7209/11.

| | MEAN | SD | MIN | MAX | LENGTH | ENDS AT |
|---|---------|--------|---------|---------|--------|------------------|
| U | 7.26 | 8.71 | -18.48 | 32.88 | 1668 | (0600 23 MAR 87) |
| V | -6.07 | 7.52 | -29.36 | 23.55 | 1668 | (0600 23 MAR 87) |
| T | 2.36 | 0.30 | 0.88 | 2.90 | 1668 | (0600 23 MAR 87) |
| P | 2473.71 | 131.26 | 2393.69 | 3397.66 | 1668 | (0600 23 MAR 87) |

3360M AT MOORING 7. 1200 30 JAN 86 - 1200 23 MAR 87. TAPE 1540/40.

| | | | | | | |
|---|---------|--------|---------|---------|------|------------------|
| U | 5.32 | 7.46 | -14.15 | 32.14 | 1669 | (1200 23 MAR 87) |
| V | -5.35 | 7.64 | -42.58 | 21.10 | 1669 | (1200 23 MAR 87) |
| T | 1.26 | 0.23 | 0.35 | 1.79 | 1669 | (1200 23 MAR 87) |
| P | 3499.81 | 129.66 | 3414.92 | 4345.02 | 1669 | (1200 23 MAR 87) |

4360M AT MOORING 7. 1200 30 JAN 86 - 0000 19 SEP 86. TAPE 1542/44

| | | | | | | |
|---|---------|-------|---------|---------|-----|------------------|
| U | 5.67 | 9.37 | -18.01 | 31.85 | 655 | (0600 13 JUL 86) |
| V | -4.78 | 8.37 | -37.32 | 21.20 | 655 | (0600 13 JUL 86) |
| T | 0.45 | 0.09 | 0.25 | 0.67 | 905 | (1800 13 SEP 86) |
| P | 4538.58 | 92.08 | 4436.71 | 5047.50 | 927 | (0000 19 SEP 86) |

5890M AT MOORING 7. 1200 30 JAN 86 - 0600 23 MAR 87. TAPE 7408/7.

| | | | | | | |
|---|-------|------|--------|-------|------|------------------|
| U | 4.57 | 8.48 | -22.71 | 32.34 | 1668 | (0600 23 MAR 87) |
| V | -5.46 | 9.00 | -35.81 | 24.47 | 1668 | (0600 23 MAR 87) |
| T | 0.32 | 0.02 | 0.18 | 0.35 | 1668 | (0600 23 MAR 87) |

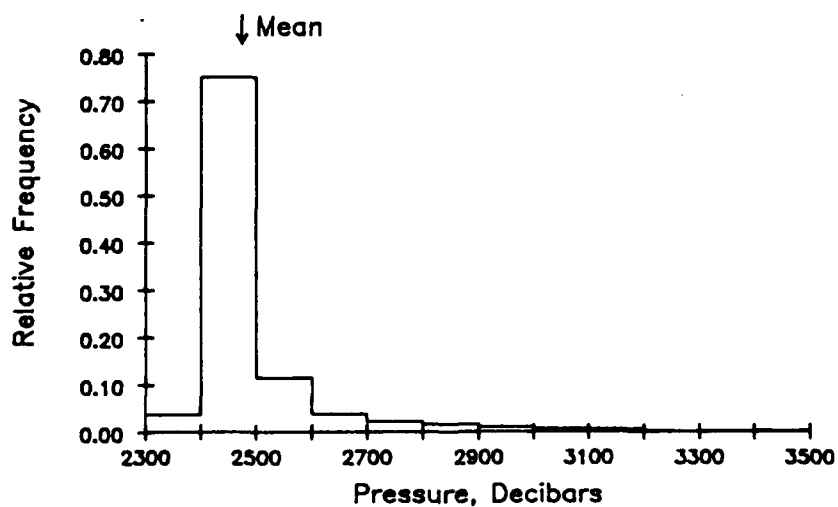
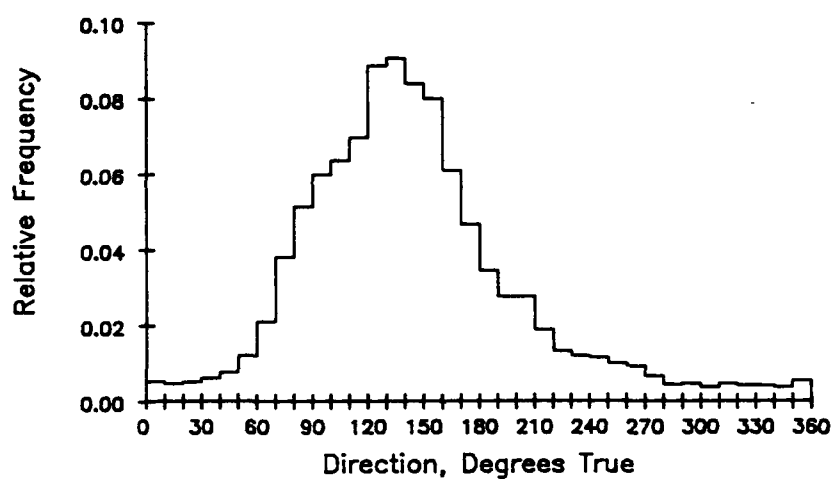
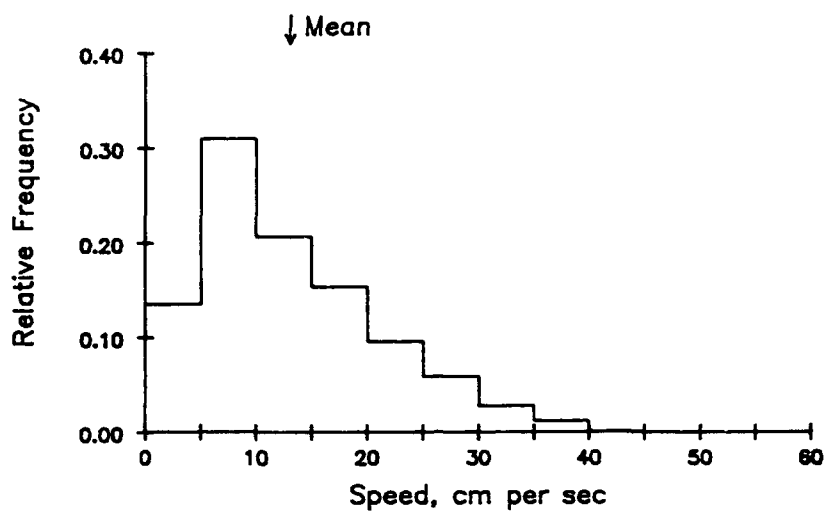
(2365 M) SPEED BRIDGED IN UNFILTERED RECORD.

(3360 M) UNFILTERED RECORD CONTAINS 6 EXTRA CYCLES.
SPEED BRIDGED IN UNFILTERED RECORD.

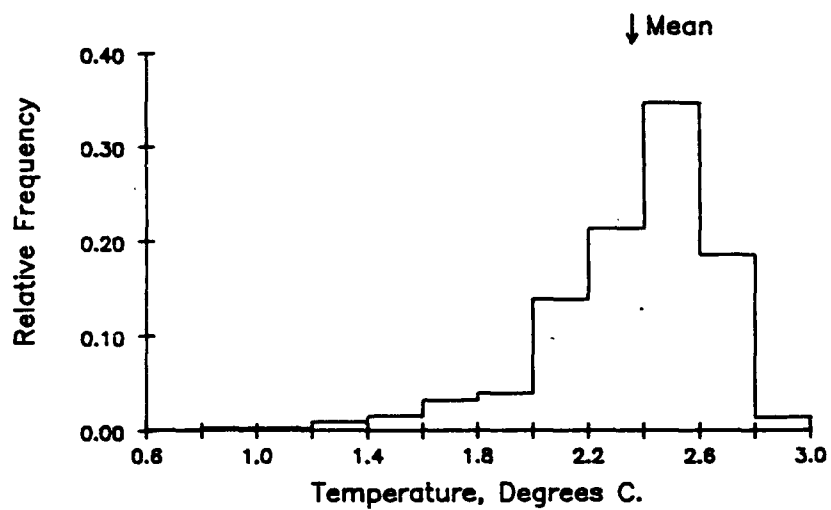
(4360 M) LOW BATTERY CAUSED SHORT RECORD.

(Speed, u, and v are given in cm/sec, Temperature in °C, Pressure in DB, and Corrected Salinity in ppt.)

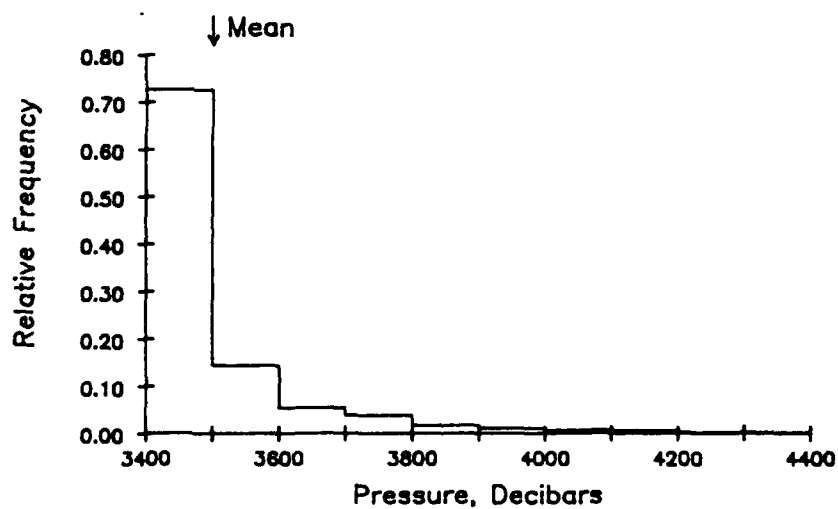
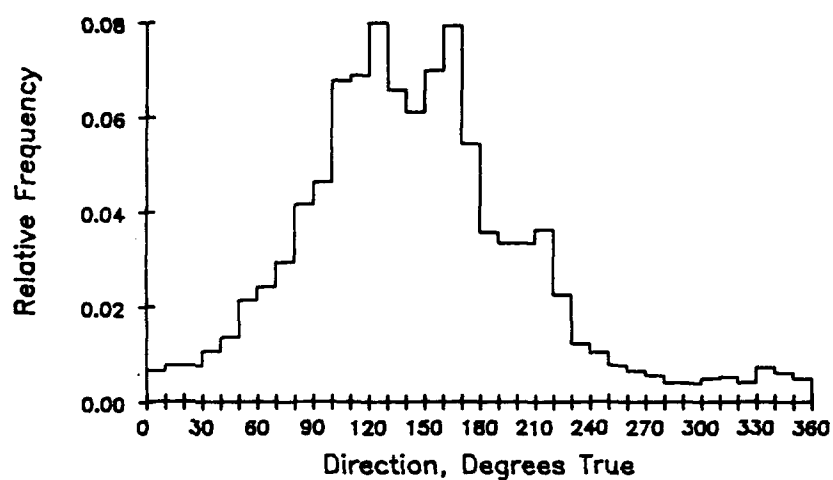
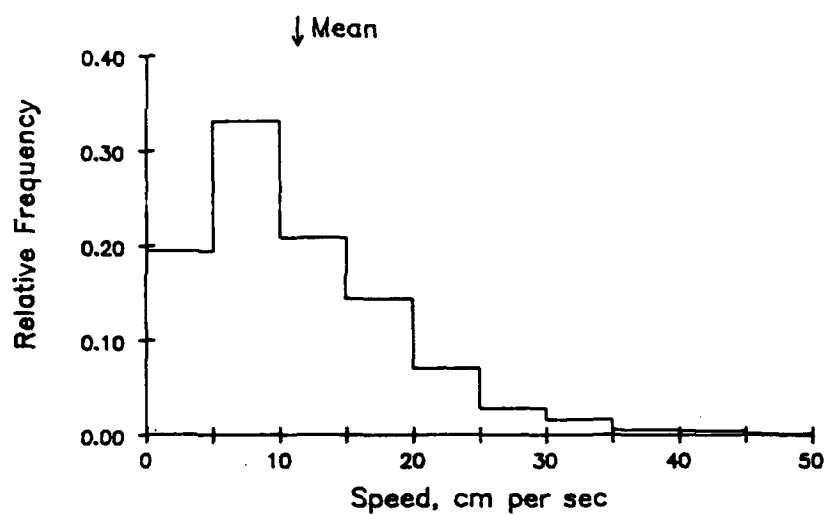
2365 METERS AT MOORING 7. TAPE 7209/11.



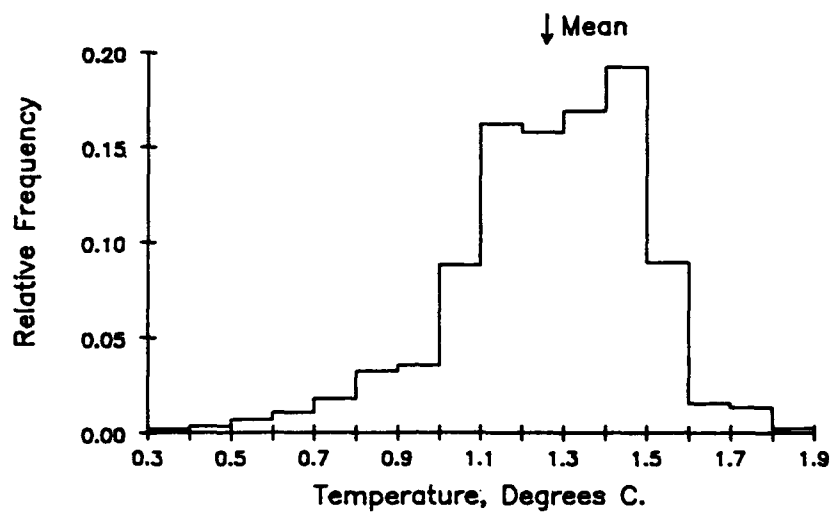
2365 METERS AT MOORING 7. TAPE 7209/11.



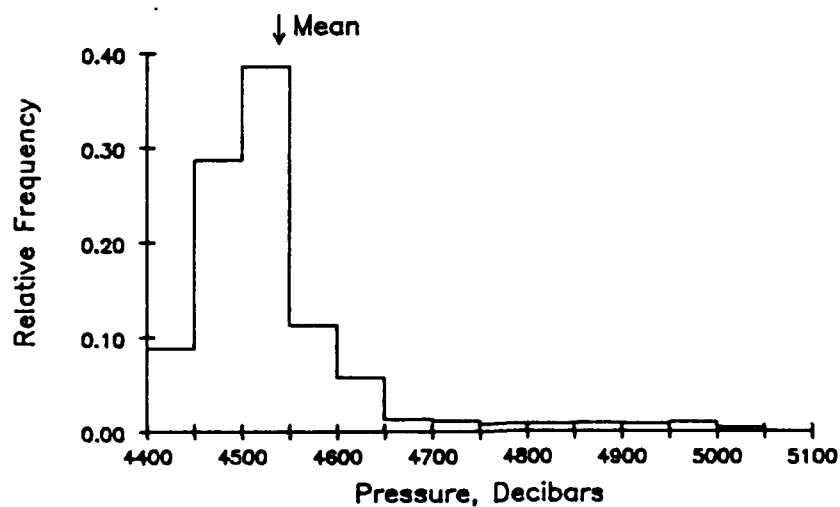
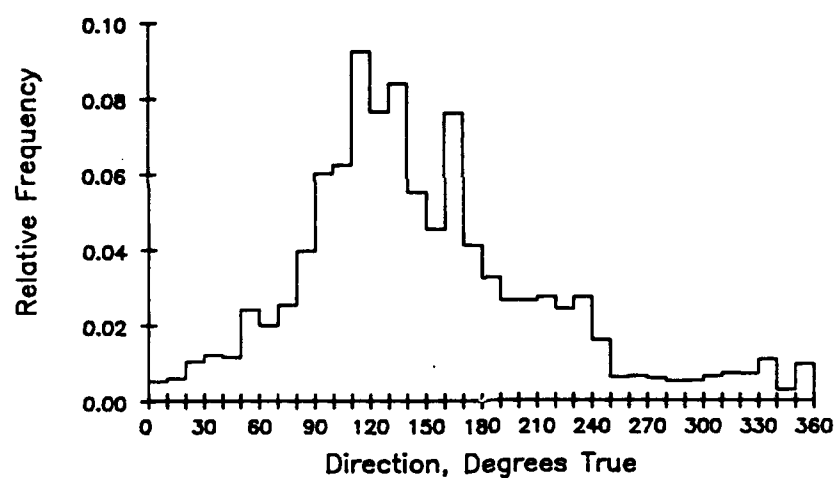
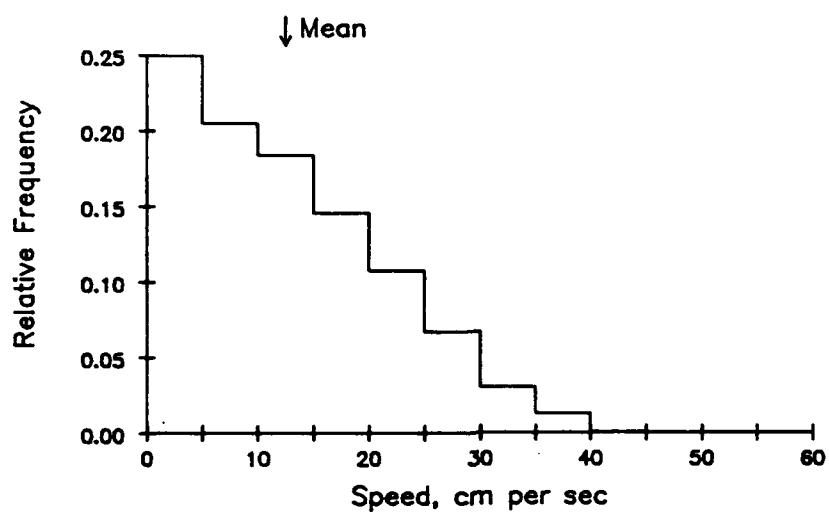
3360 METERS AT MOORING 7. TAPE 1540/40.



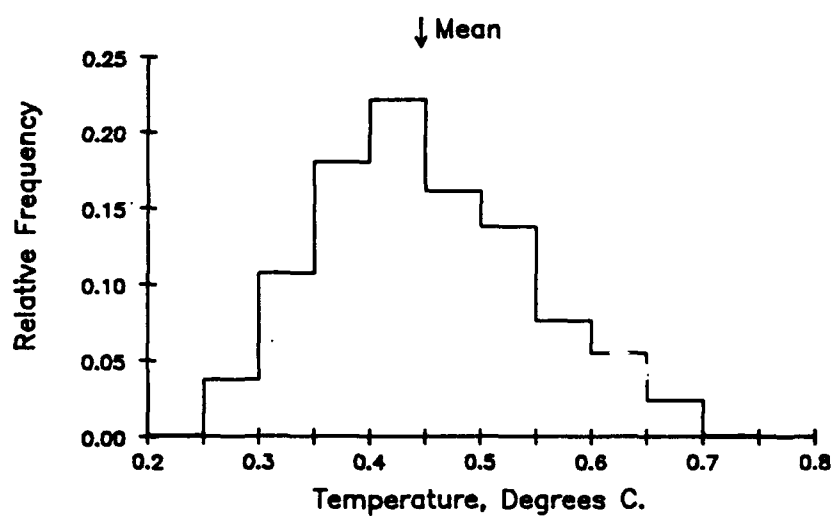
3360 METERS AT MOORING 7. TAPE 1540/40.



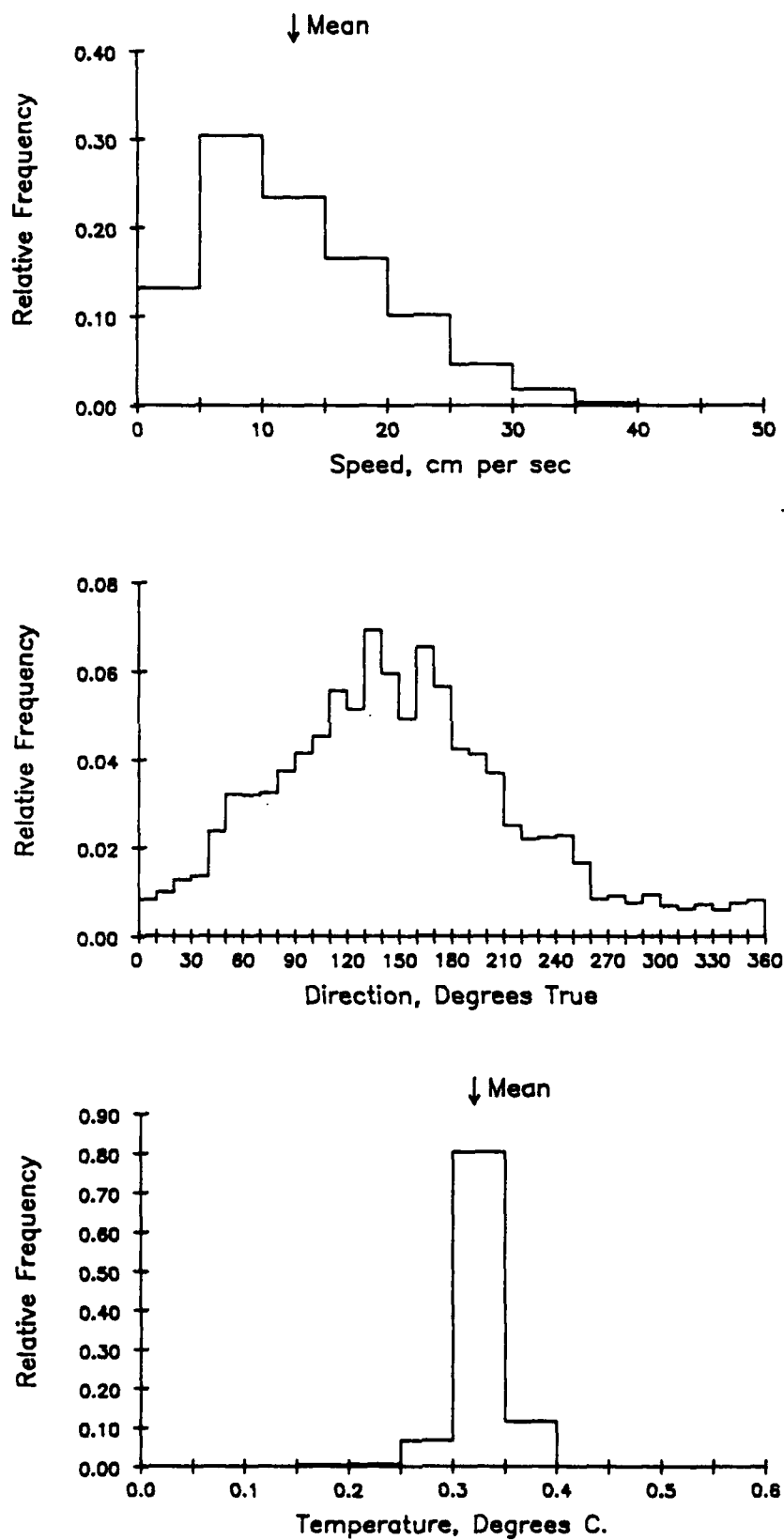
4360 METERS AT MOORING 7. TAPE 1542/44.



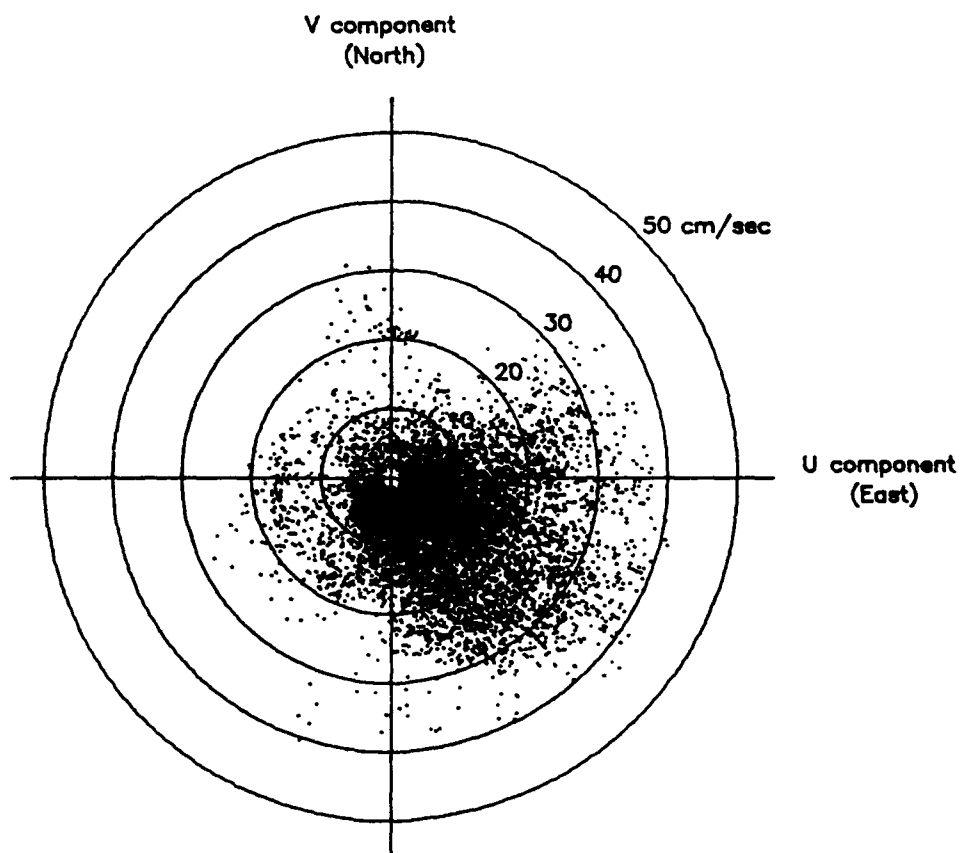
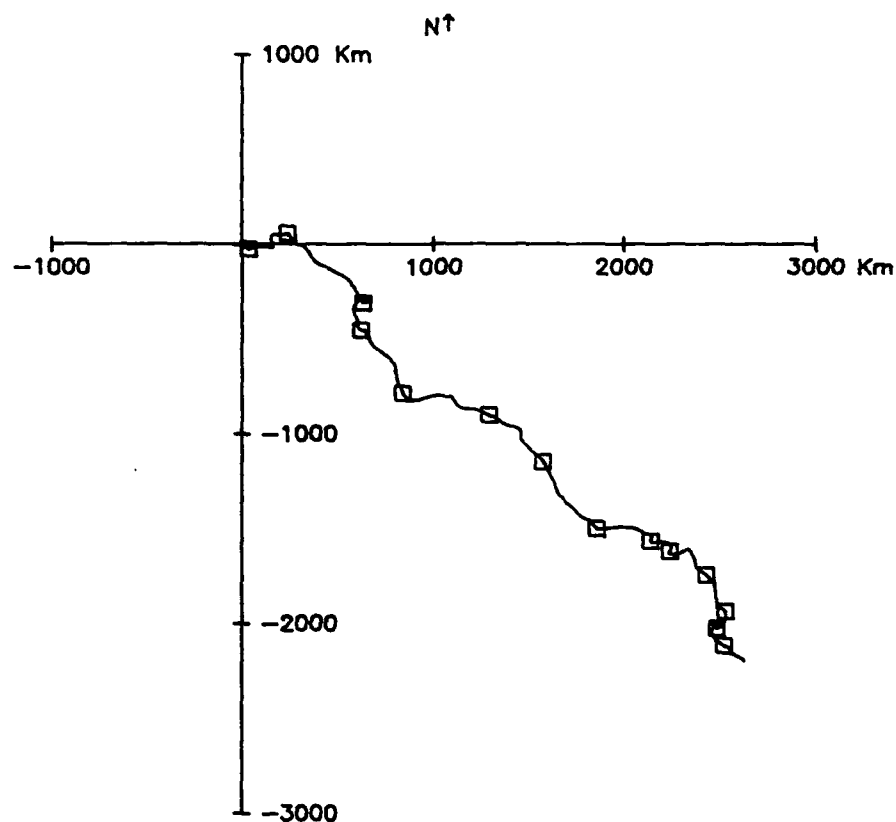
4360 METERS AT MOORING 7. TAPE 1542/44.



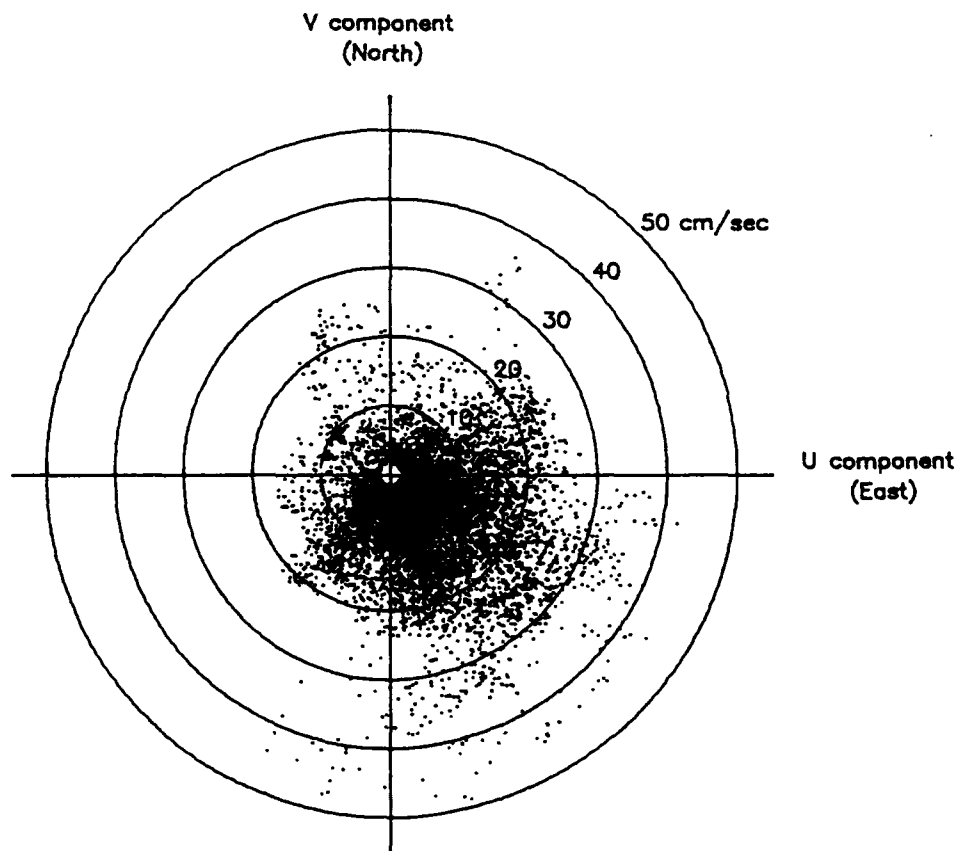
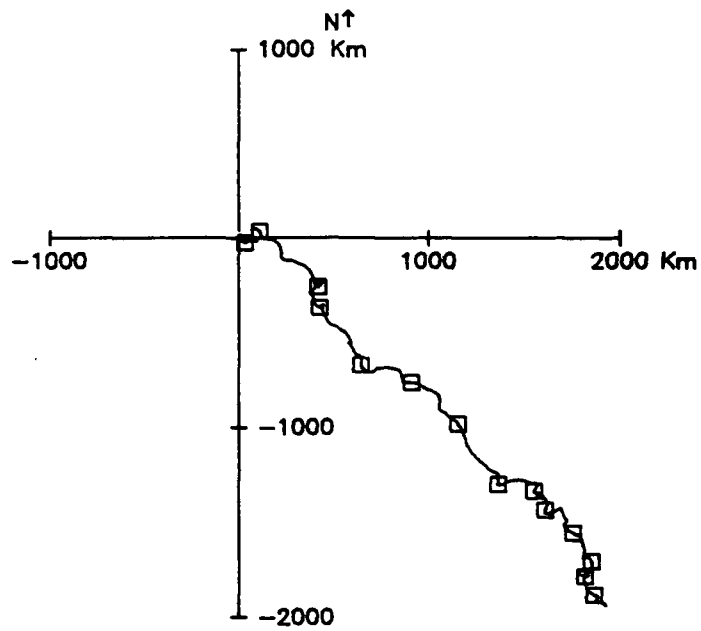
5890 METERS AT MOORING 7. TAPE 7408/7.



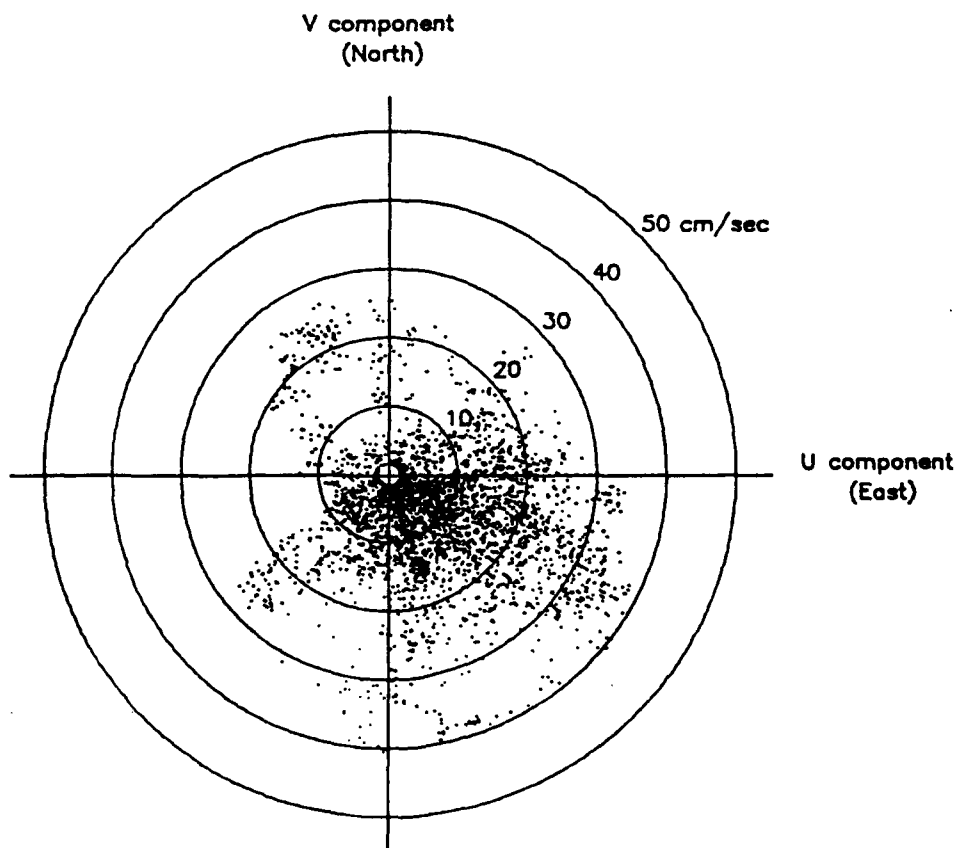
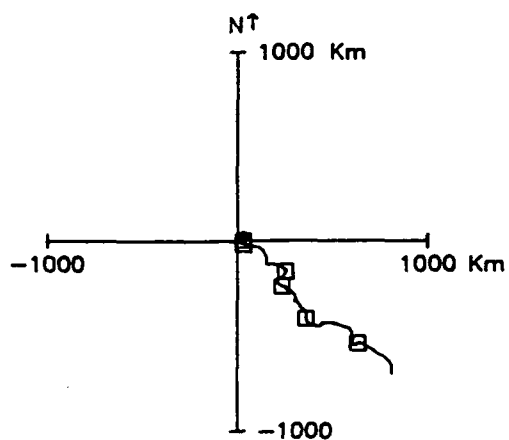
2365M AT MOORING 7. 29 JAN 86 - 24 MAR 87. TAPE 7209/11.



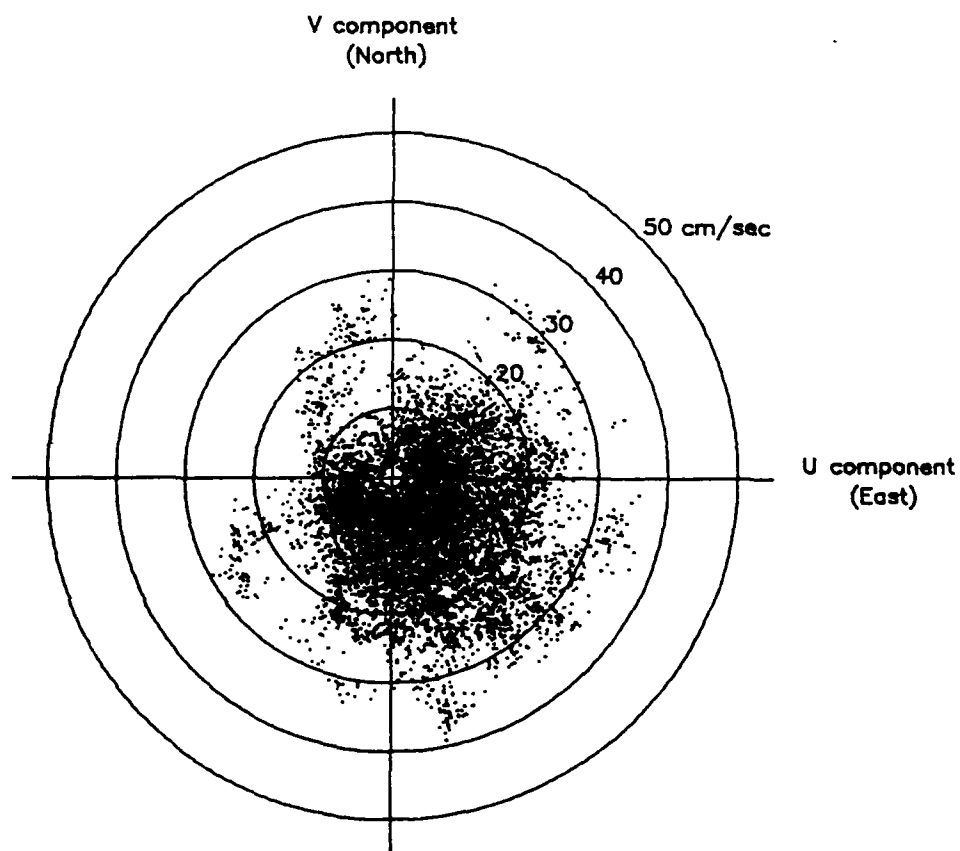
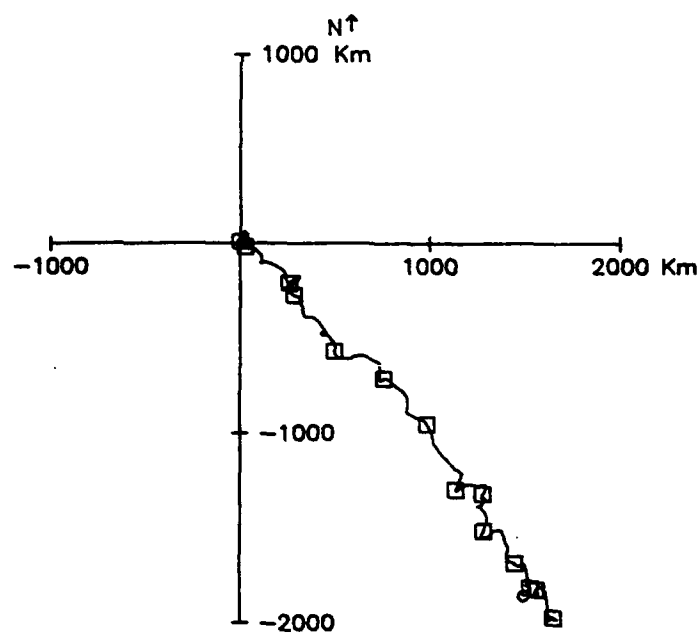
3360M AT MOORING 7. 29 JAN 86 - 24 MAR 87. TAPE 1540/40.



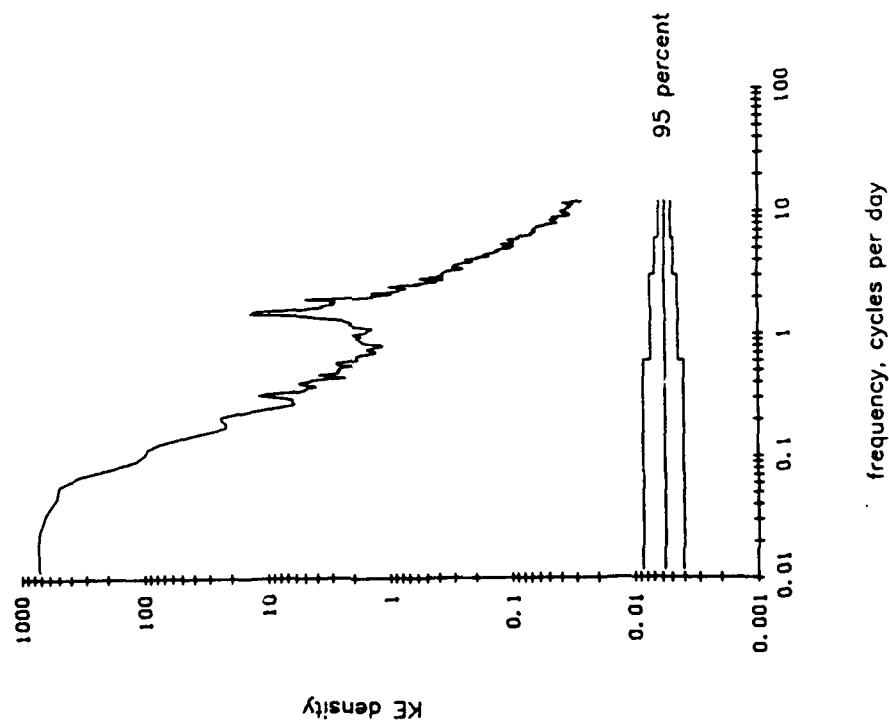
4360M AT MOORING 7. 29 JAN 86 - 14 JUL 86. TAPE 1542/44.



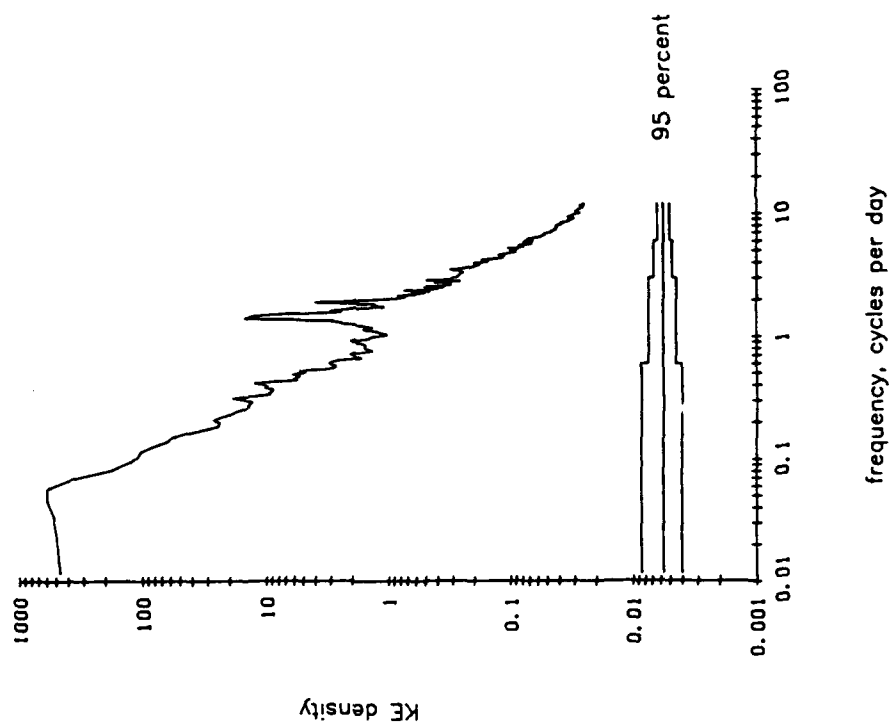
5890M AT MOORING 7. 29 JAN 86 - 24 MAR 87. TAPE 7408/7.



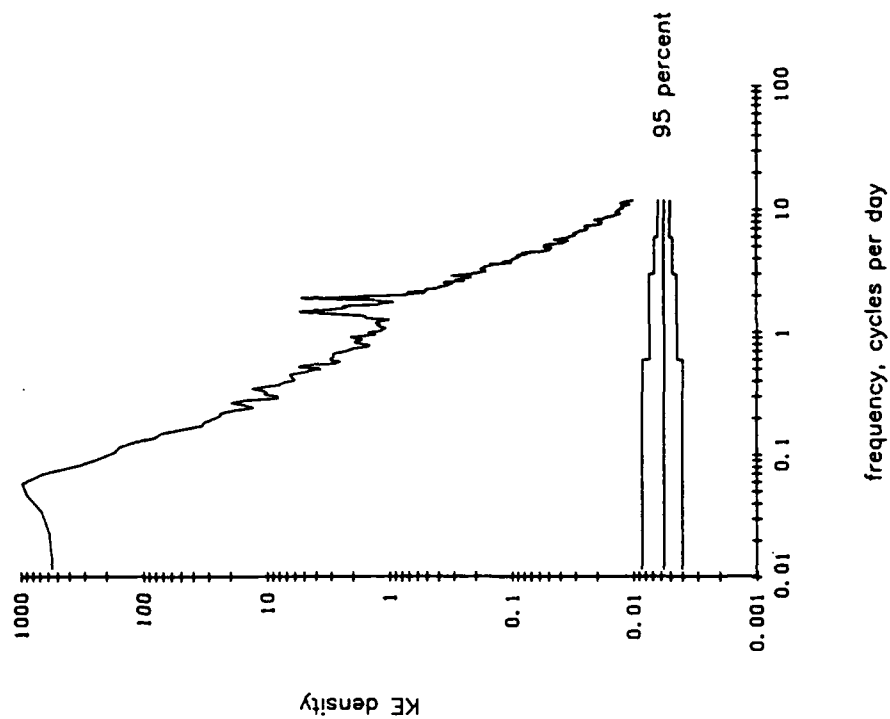
Unfiltered current. 2365 m at Mooring 7.
Both components



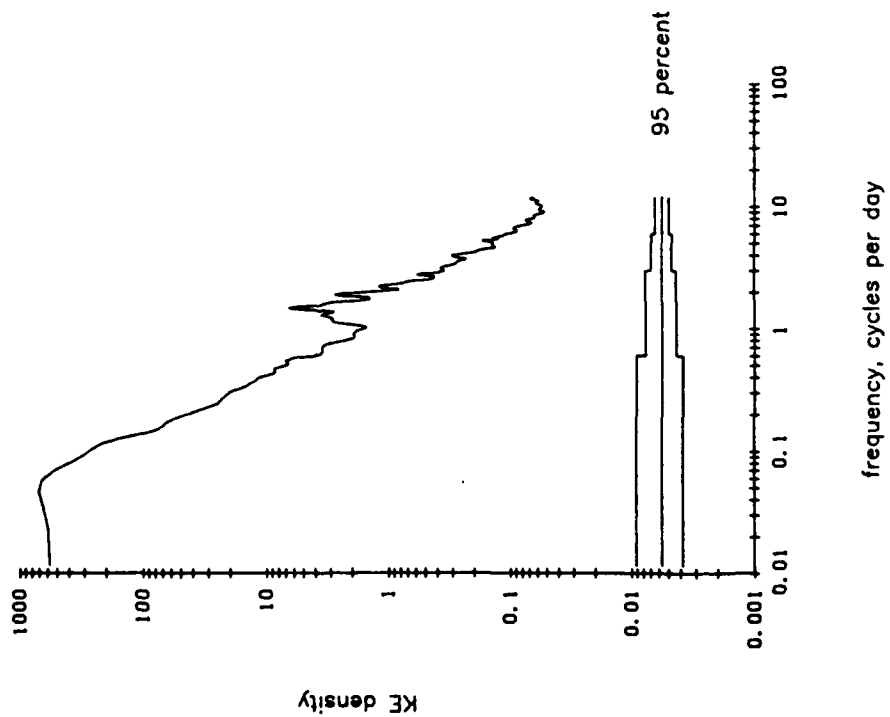
Unfiltered current. 3360 m at Mooring 7.
Both components



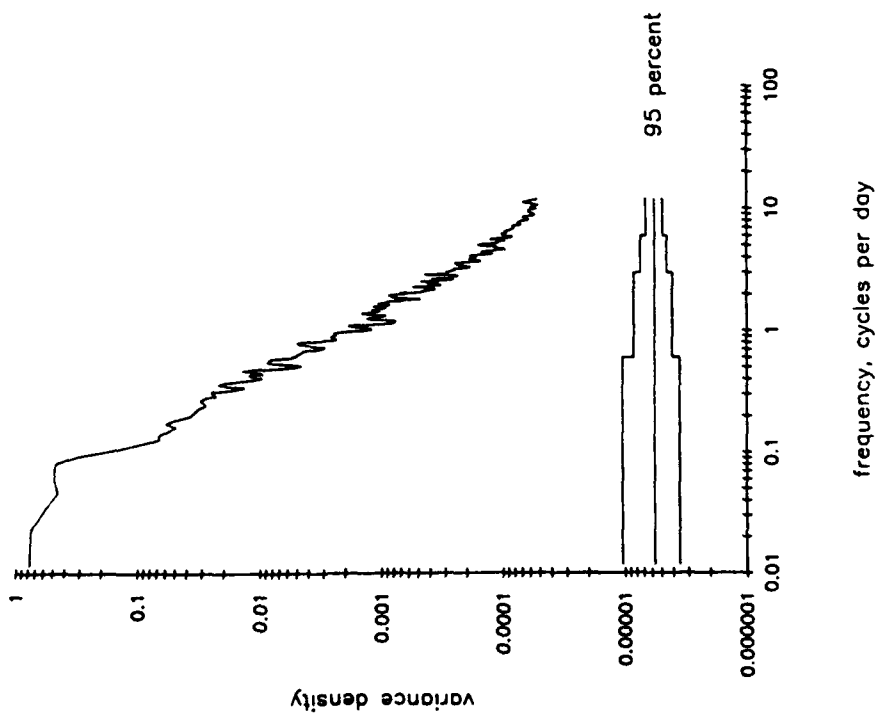
Unfiltered current. 5890 m at Mooring 7.
Both components



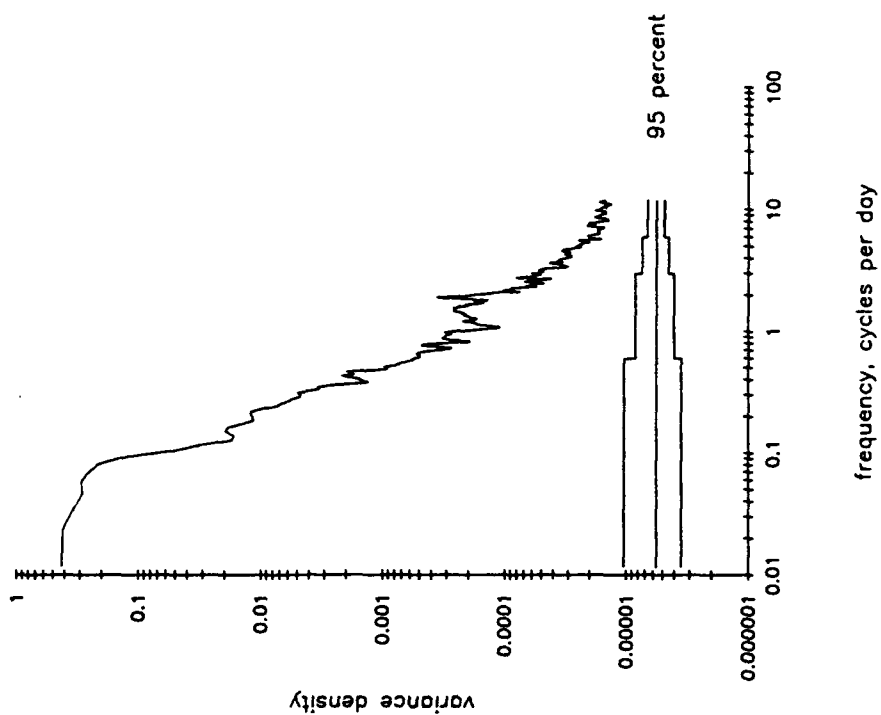
Unfiltered current. 4360 m at Mooring 7.
Both components



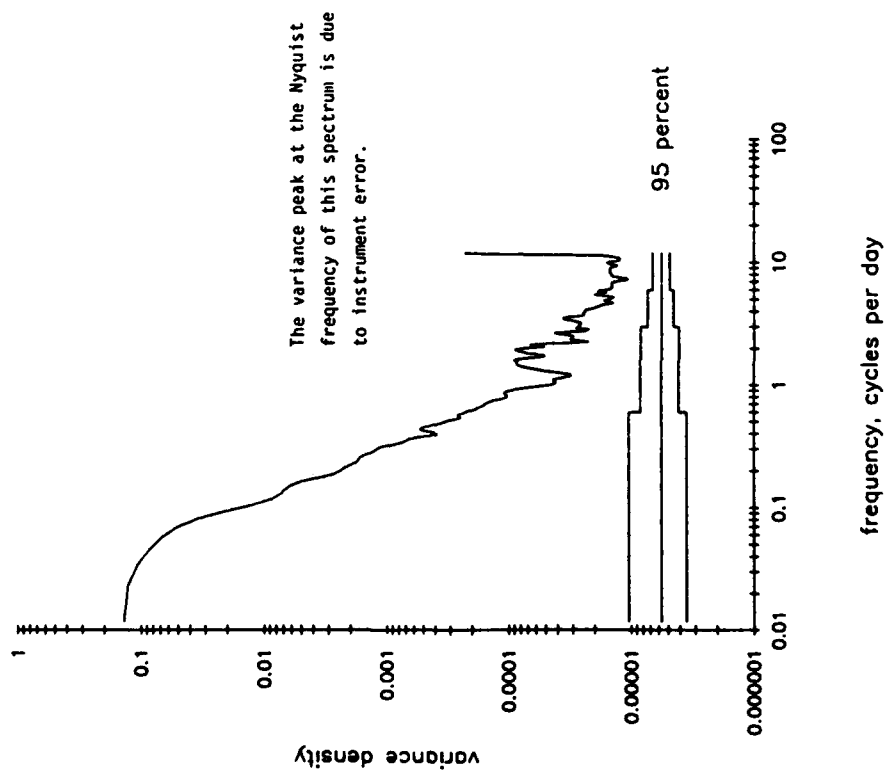
Unfiltered temperature. 2365 m at Mooring 7.



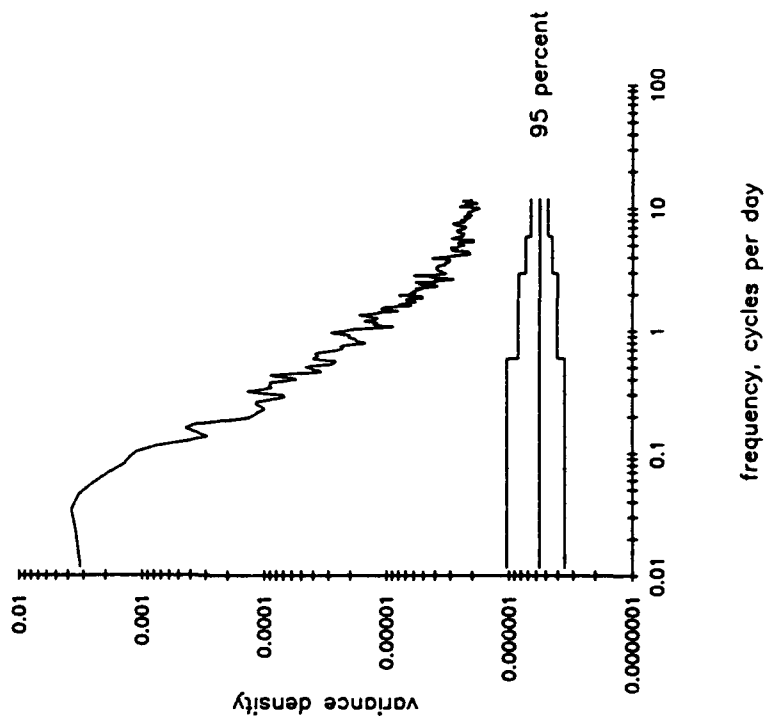
Unfiltered temperature. 3360 m at Mooring 7.

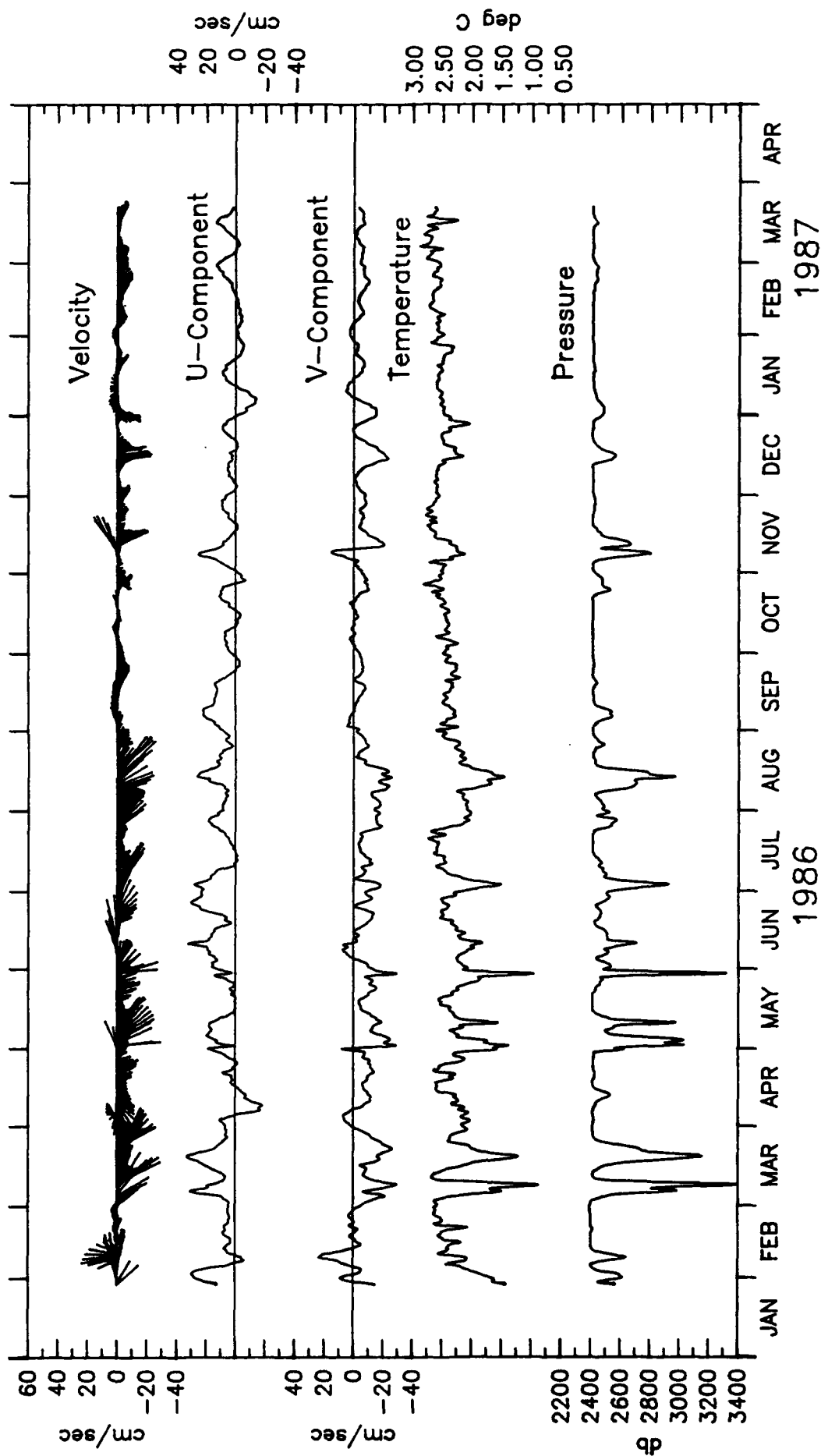


Unfiltered temperature. 4360 m at Mooring 7.

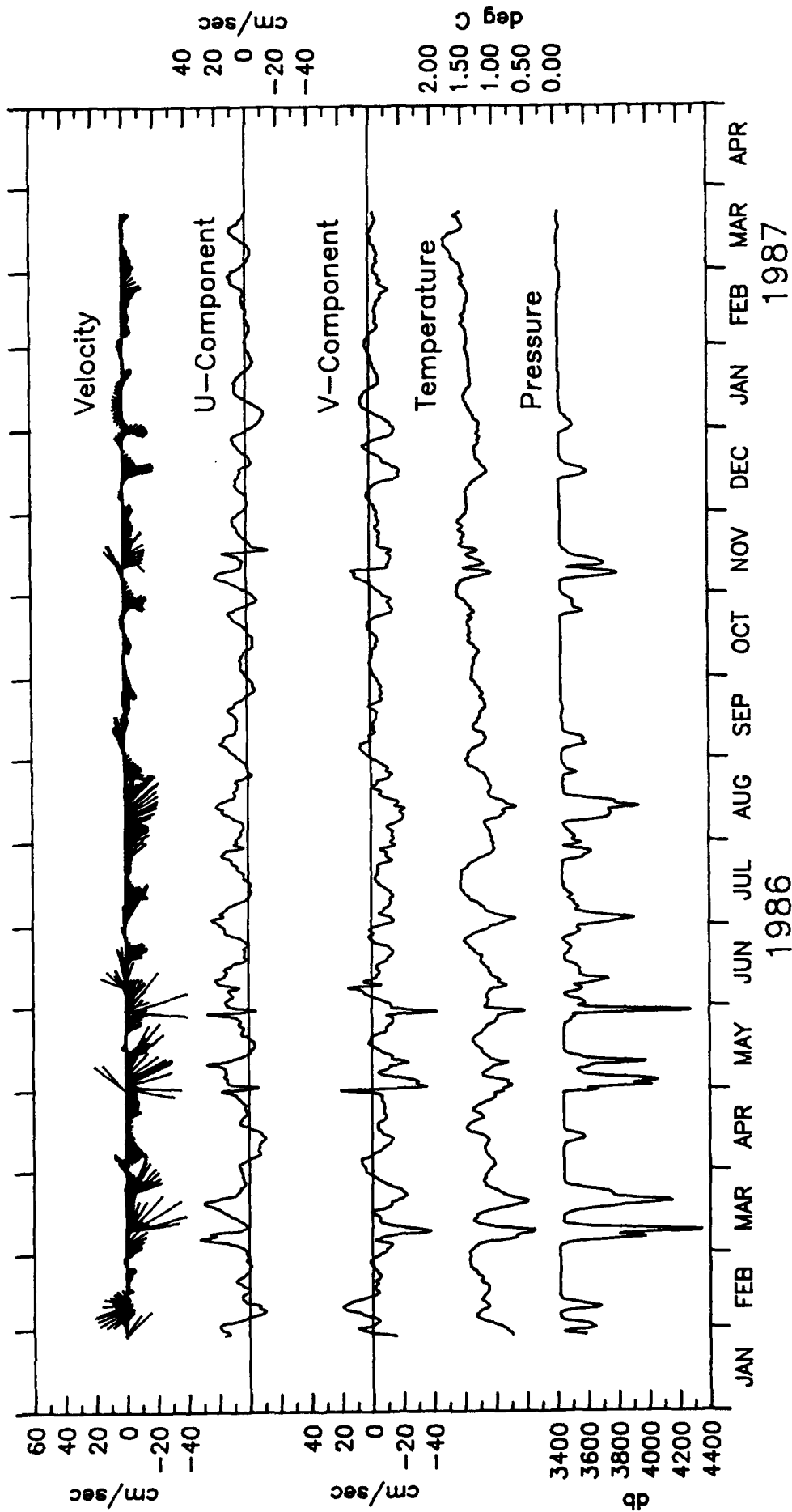


Unfiltered temperature. 5890 m at Mooring 7.

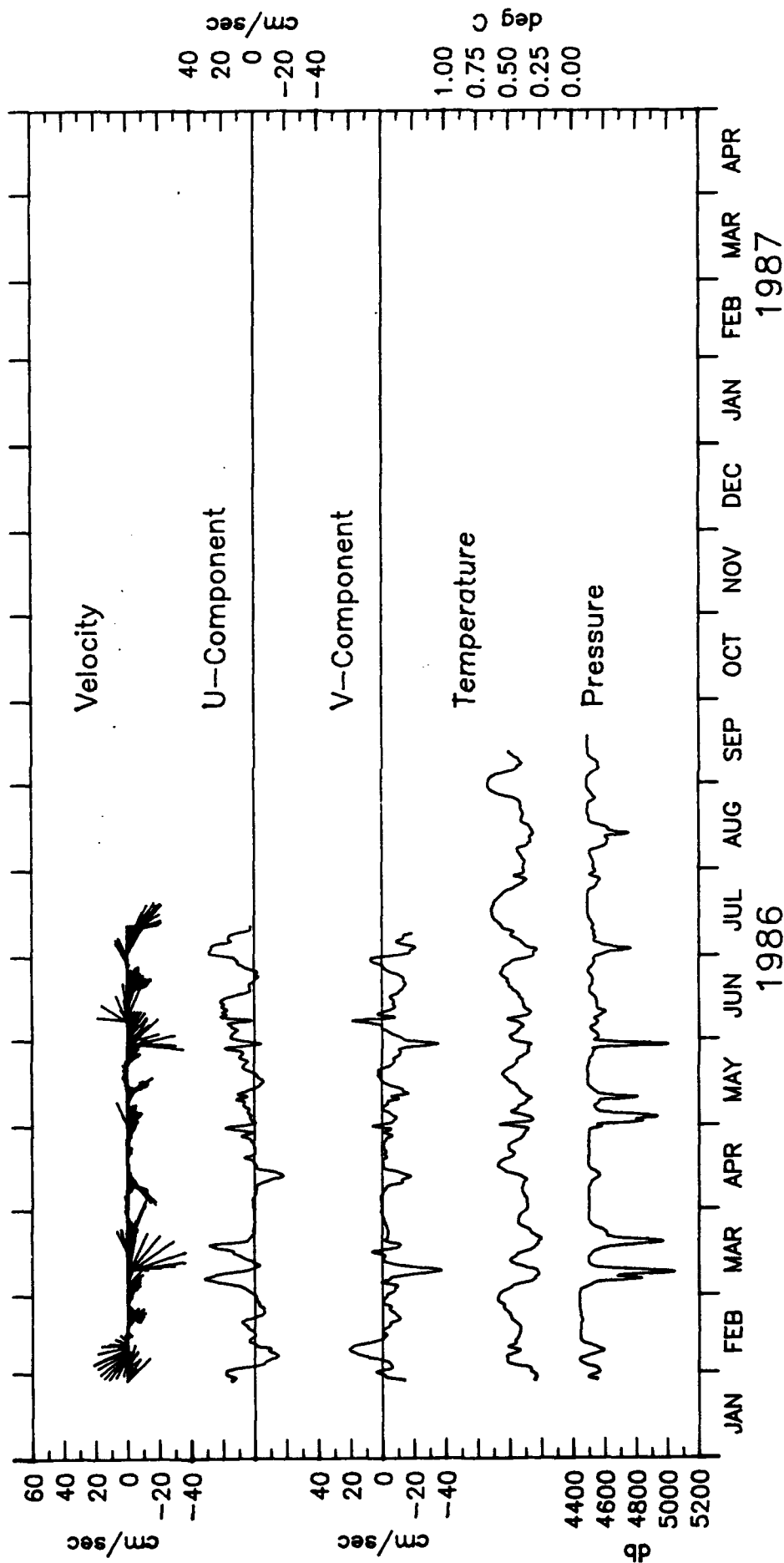




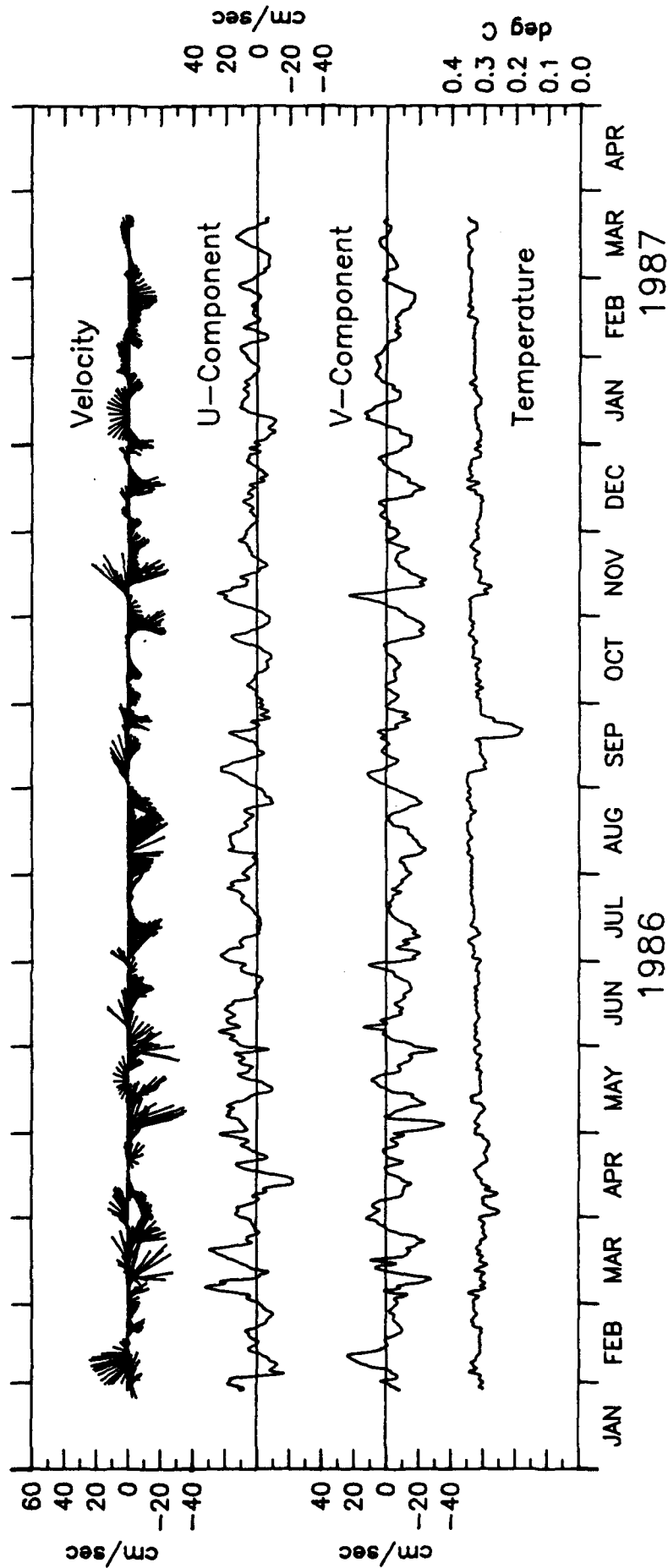
2365M AT MOORING 7.



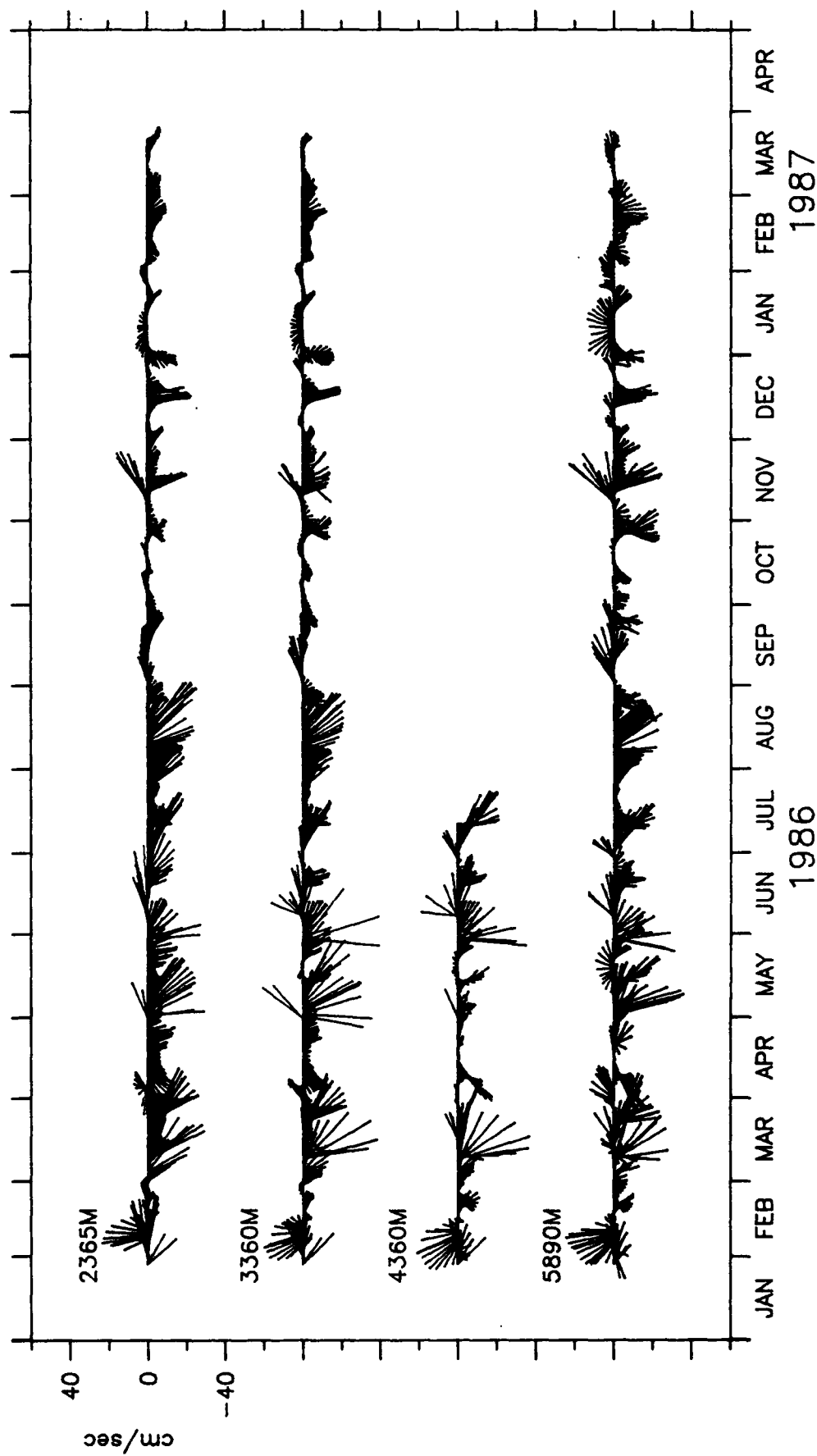
3360M AT MOORING 7.



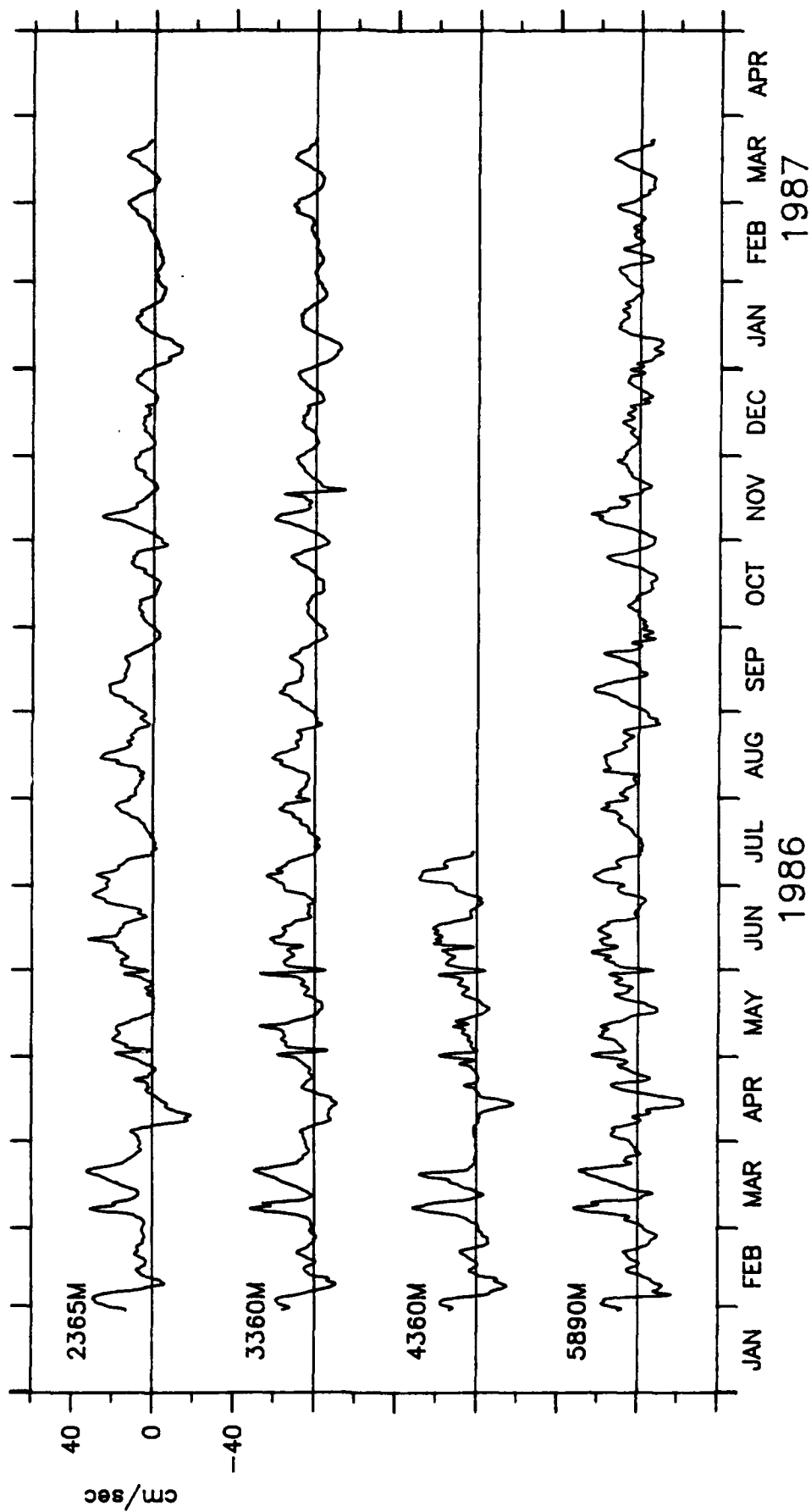
4360M AT MOORING 7.



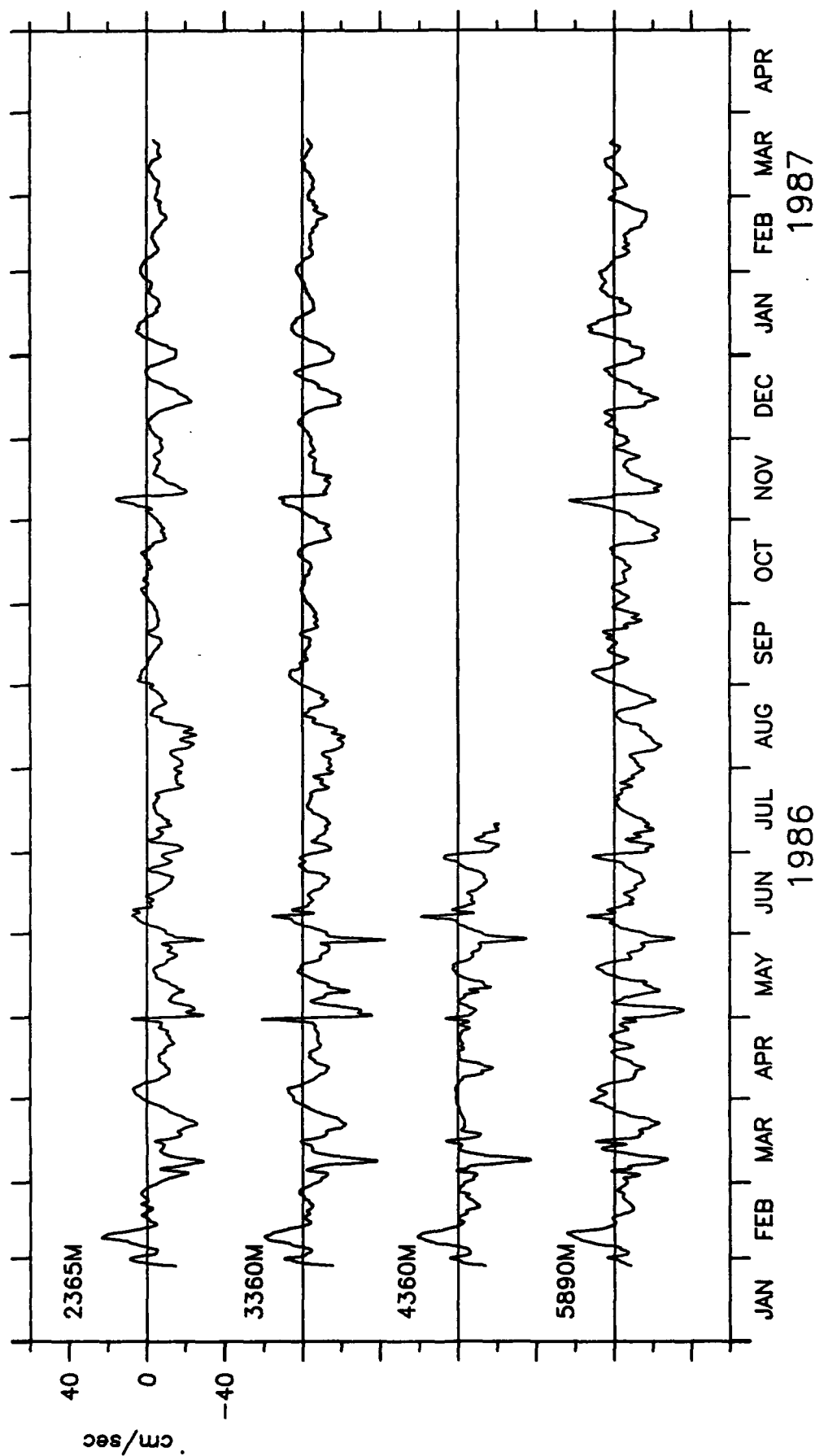
5890M AT MOORING 7.



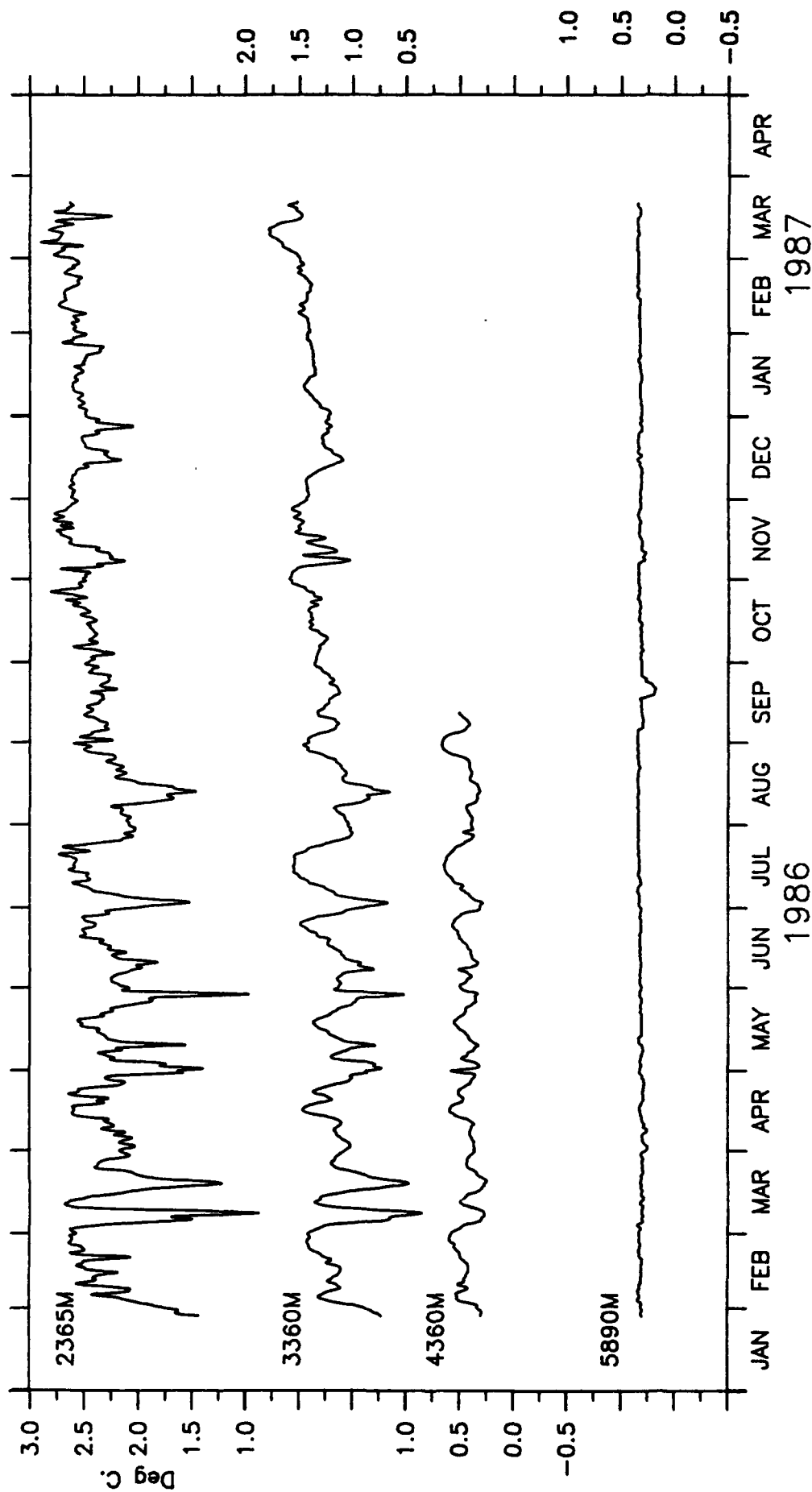
VELOCITY, MOORING 7.



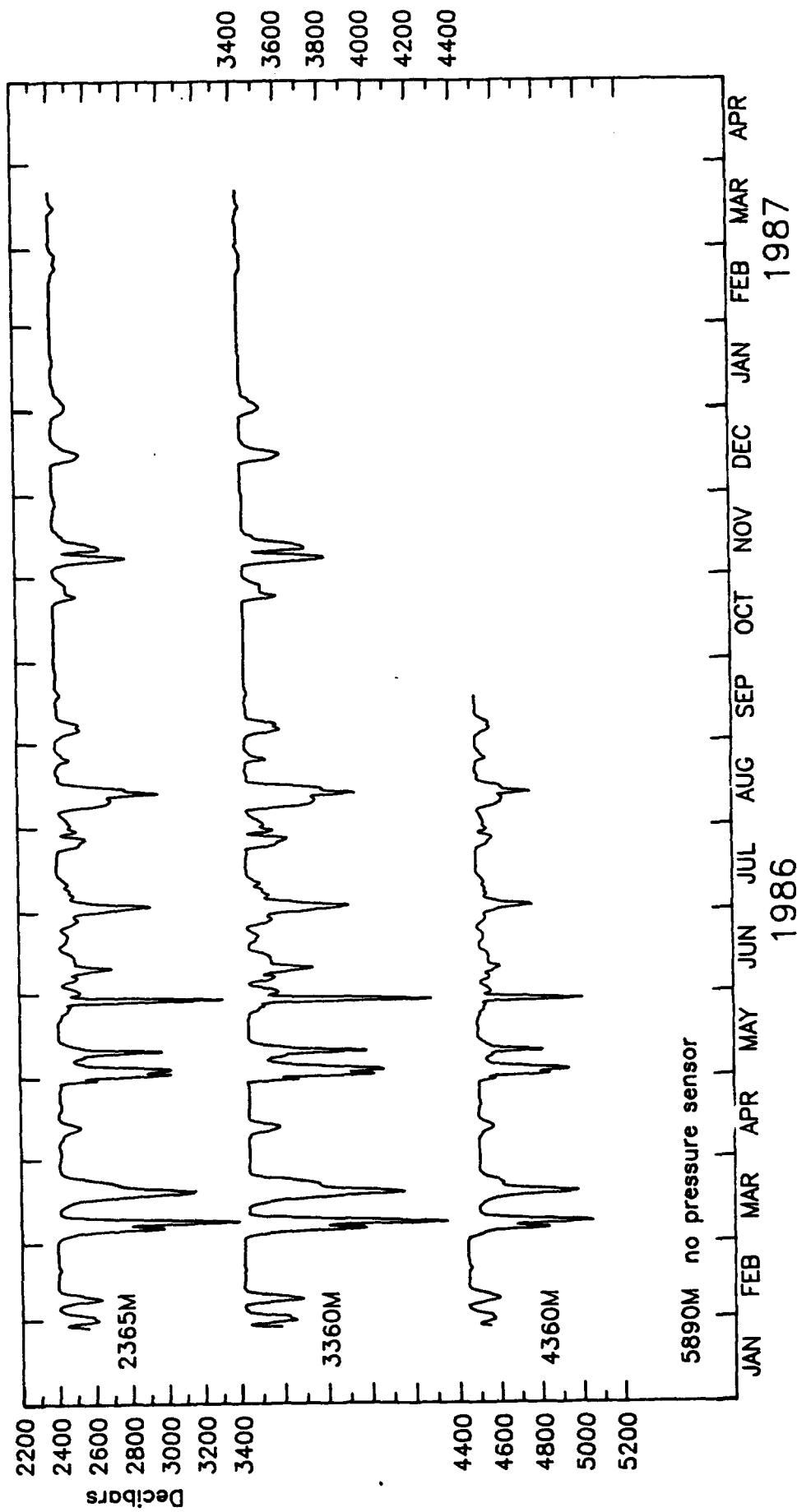
U-COMPONENT AT MOORING 7.



V-COMPONENT, MOORING 7.



TEMPERATURE, MOORING 7.



PRESSURE, MOORING 7.

MOORING 8

49°23.14'S, 38°42.53'W

1986 1987

JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR

820 M

S
T
P
Sol

1540 M

S
T
P
Sol

2935 M

S
T
P
Sol

3970 M

S
T
P

4420 M

S
T

DATA RETURN FROM MOORING 8.

MOORING 8. UNFILTERED HOURLY DATA

820M AT MOORING 8. 1900 30 JAN 86 - 1300 30 MAR 87. TAPE 7210/12.

| | MEAN | SD | MIN | MAX | LENGTH | ENDS AT |
|---|--------|-------|--------|---------|--------|------------------|
| S | 21.63 | 11.91 | 0.80 | 60.30 | 10171 | (1300 30 MAR 87) |
| U | 12.69 | 16.13 | -29.20 | 55.00 | 10171 | (1300 30 MAR 87) |
| V | -3.58 | 13.25 | -45.80 | 39.00 | 10171 | (1300 30 MAR 87) |
| T | 2.11 | 0.20 | 1.68 | 2.76 | 10171 | (1300 30 MAR 87) |
| P | 899.75 | 95.30 | 829.20 | 1559.50 | 10171 | (1300 30 MAR 87) |

1540M AT MOORING 8. 1900 30 JAN 86 - 1300 30 MAR 87. TAPE 4584/6.

| | | | | | | |
|---|---------|-------|---------|---------|-------|------------------|
| S | 14.88 | 8.03 | 0.80 | 42.10 | 10171 | (1300 30 MAR 87) |
| U | 6.56 | 11.93 | -24.20 | 40.10 | 10171 | (1300 30 MAR 87) |
| V | -1.89 | 9.84 | -35.80 | 27.60 | 10171 | (1300 30 MAR 87) |
| T | 1.68 | 0.34 | 1.00 | 2.59 | 10171 | (1300 30 MAR 87) |
| P | 1650.90 | 82.94 | 1557.50 | 2266.60 | 10171 | (1300 30 MAR 87) |

2335M AT MOORING 8. 1900 30 JAN 86 - 1300 30 MAR 87. TAPE 7163/12.

| | | | | | | |
|---|---------|-------|---------|---------|-------|------------------|
| S | 12.14 | 6.64 | 0.80 | 37.40 | 9809 | (1300 30 MAR 87) |
| U | 2.62 | 10.45 | -27.20 | 36.30 | 9809 | (1300 30 MAR 87) |
| V | -0.16 | 8.68 | -28.90 | 35.60 | 9809 | (1300 30 MAR 87) |
| T | 0.92 | 0.20 | 0.52 | 1.73 | 10171 | (1300 30 MAR 87) |
| P | 2416.80 | 70.23 | 2367.00 | 2956.90 | 10171 | (1300 30 MAR 87) |

3370M AT MOORING 8. 1900 30 JAN 86 - 2300 21 JUN 86. TAPE 1964/38.

| | | | | | | |
|---|---------|-------|---------|---------|------|------------------|
| S | 13.88 | 6.90 | 0.70 | 35.00 | 3413 | (2300 21 JUN 86) |
| U | -4.49 | 11.83 | -31.70 | 27.00 | 3413 | (2300 21 JUN 86) |
| V | 4.64 | 7.65 | -34.30 | 28.40 | 3413 | (2300 21 JUN 86) |
| T | 0.20 | 0.05 | 0.00 | 0.37 | 3413 | (2300 21 JUN 86) |
| P | 3458.91 | 30.87 | 3422.00 | 3654.00 | 3413 | (2300 21 JUN 86) |

4420M AT MOORING 8. 1900 30 JAN 86 - 1300 30 MAR 87. TAPE 6087/13.

| | | | | | | |
|---|-------|------|--------|-------|-------|------------------|
| S | 15.49 | 9.64 | 0.80 | 64.60 | 10171 | (1300 30 MAR 87) |
| U | 7.36 | 13.0 | -32.50 | 61.90 | 10171 | (1300 30 MAR 87) |
| V | 4.66 | 9.37 | -47.30 | 33.00 | 10171 | (1300 30 MAR 87) |
| T | -0.11 | 0.08 | -0.22 | 0.18 | 10171 | (1300 30 MAR 87) |

(2335 M) SPEED, U, AND V HAVE GAPS IN RECORD LINES:
2036 - 2397 (1400 25 APR 86 - 1500 10 MAY 86)

(3370 M) DEAD BATTERY CAUSED PREMATURE INSTRUMENT FAILURE.

(Speed, u, and v are given in cm/sec, Temperature in °C, Pressure in DB).

MOORING 8. LLP FILTERED 6-HOURLY DATA.

820M AT MOORING 8. 0000 1 FEB 86 - 1200 29 MAR 87. TAPE 7210/12.

| | MEAN | SD | MIN | MAX | LENGTH | ENDS AT |
|---|--------|-------|--------|---------|--------|------------------|
| U | 12.75 | 15.92 | -26.09 | 51.00 | 1687 | (1200 29 MAR 87) |
| V | -3.53 | 12.97 | -38.26 | 31.48 | 1687 | (1200 29 MAR 87) |
| T | 2.11 | 0.20 | 1.74 | 2.74 | 1687 | (1200 29 MAR 87) |
| P | 899.92 | 95.08 | 830.71 | 1544.49 | 1687 | (1200 29 MAR 87) |
| S | 34.74 | 2.61 | 34.66 | 34.84 | 1655 | (1200 29 MAR 87) |

1540M AT MOORING 8. 0000 1 FEB 86 - 1200 29 MAR 87. TAPE 4584/6.

| | | | | | | |
|---|---------|-------|---------|---------|------|------------------|
| U | 6.61 | 11.75 | -20.58 | 38.75 | 1687 | (1200 29 MAR 87) |
| V | -1.84 | 9.56 | -29.22 | 23.12 | 1687 | (1200 29 MAR 87) |
| T | 1.68 | 0.34 | 1.09 | 2.54 | 1687 | (1200 29 MAR 87) |
| P | 1651.04 | 82.46 | 1580.03 | 2257.54 | 1687 | (1200 29 MAR 87) |
| S | 34.76 | 2.58 | 34.68 | 34.87 | 1674 | (1200 29 MAR 87) |

2335M AT MOORING 8. 0000 1 FEB 86 - 1200 29 MAR 87. TAPE 7163/12.

| | | | | | | |
|---|---------|-------|---------|---------|------|------------------|
| U | 2.73 | 10.21 | -23.59 | 34.30 | 1619 | (1200 29 MAR 87) |
| V | -0.07 | 8.39 | -25.06 | 28.33 | 1619 | (1200 29 MAR 87) |
| T | 0.92 | 0.20 | 0.55 | 1.54 | 1687 | (1200 29 MAR 87) |
| P | 2416.92 | 70.13 | 2367.21 | 2936.67 | 1687 | (1200 29 MAR 87) |
| S | 34.72 | 2.81 | 34.68 | 34.76 | 1673 | (1200 29 MAR 87) |

3370M AT MOORING 8. 0000 1 FEB 86 - 1800 20 JUN 86. TAPE 1964/38.

| | | | | | | |
|---|---------|-------|---------|---------|-----|------------------|
| U | -4.47 | 11.75 | -28.20 | 22.30 | 560 | (1800 20 JUN 86) |
| V | 4.71 | 7.43 | -24.56 | 25.31 | 560 | (1800 20 JUN 86) |
| T | 0.20 | 0.05 | 0.02 | 0.32 | 560 | (1800 20 JUN 86) |
| P | 3459.14 | 30.85 | 3434.02 | 3640.44 | 560 | (1800 20 JUN 86) |

4420M AT MOORING 8. 0000 1 FEB 86 - 1200 29 MAR 87. TAPE 6087/13.

| | | | | | | |
|---|-------|-------|--------|-------|------|------------------|
| U | 7.41 | 12.66 | -26.86 | 57.47 | 1687 | (1200 29 MAR 87) |
| V | 4.72 | 8.88 | -44.01 | 27.75 | 1687 | (1200 29 MAR 87) |
| T | -0.11 | 0.07 | -0.22 | 0.17 | 1687 | (1200 29 MAR 87) |

(820 M) GAPS IN SALINITY RECORD, BAD VALUES REMOVED

(1540 M) GAPS IN SALINITY RECORD, BAD VALUES REMOVED

(2335 M) GAPS IN U & V IN UNFILTERED RECORD, LLP GAPS LINES:

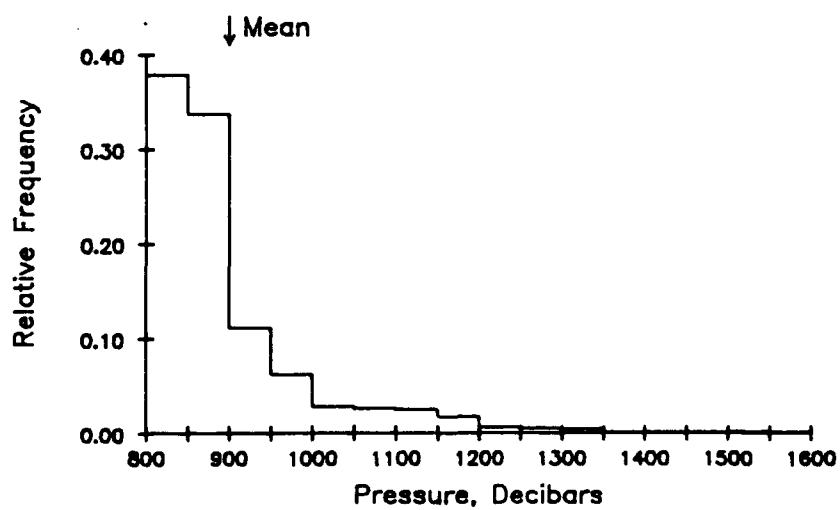
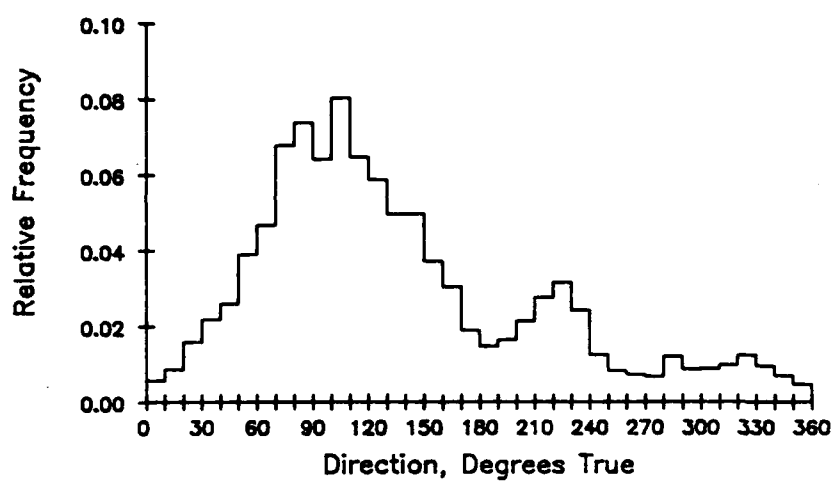
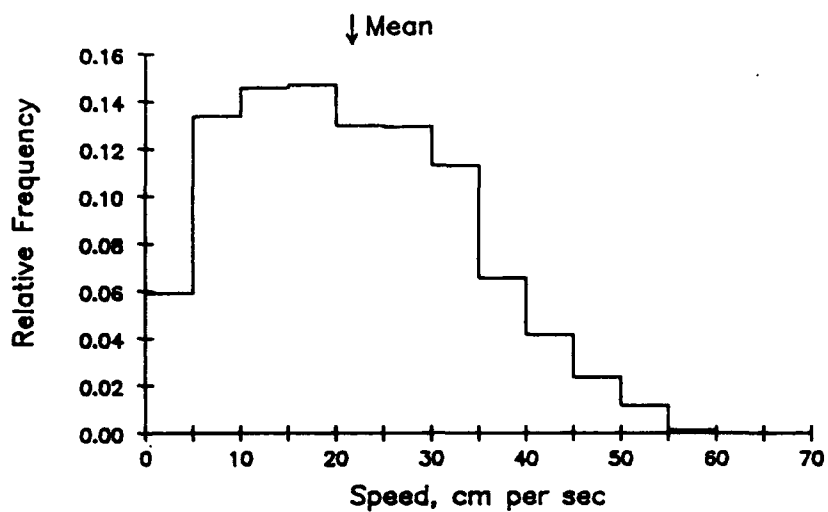
332 - 399 (1800 24 APR 86 - 1200 11 MAY 86)

GAPS IN SALINITY RECORD, BAD VALUES REMOVED

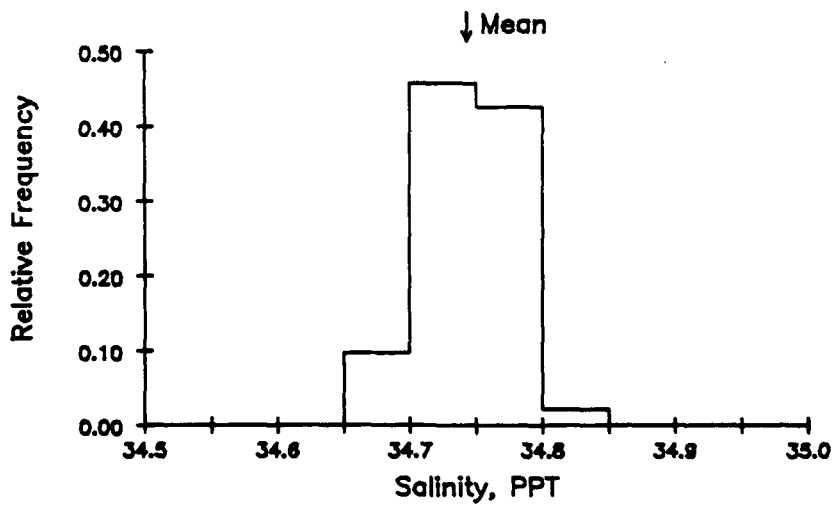
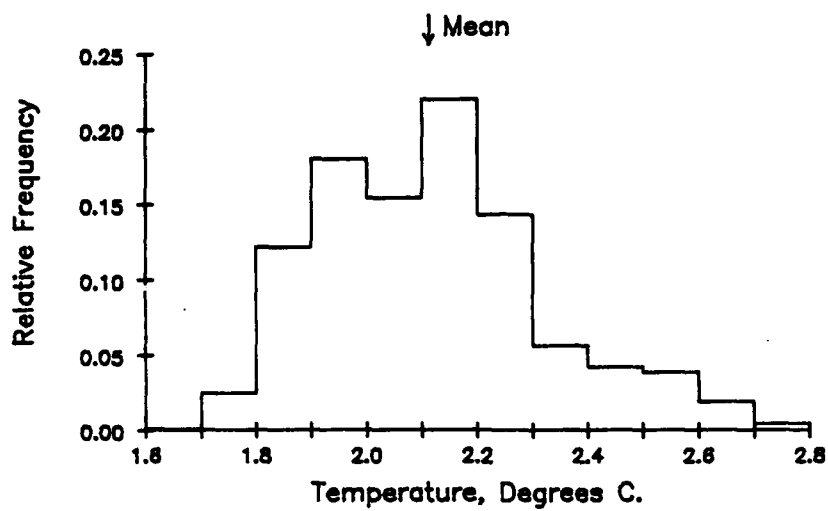
(3370 M) DEAD BATTERY CAUSED PREMATURE INSTRUMENT FAILURE

(Speed, u, and v are given in cm/sec, Temperature in °C, Pressure in DB, and Corrected Salinity in ppt.)

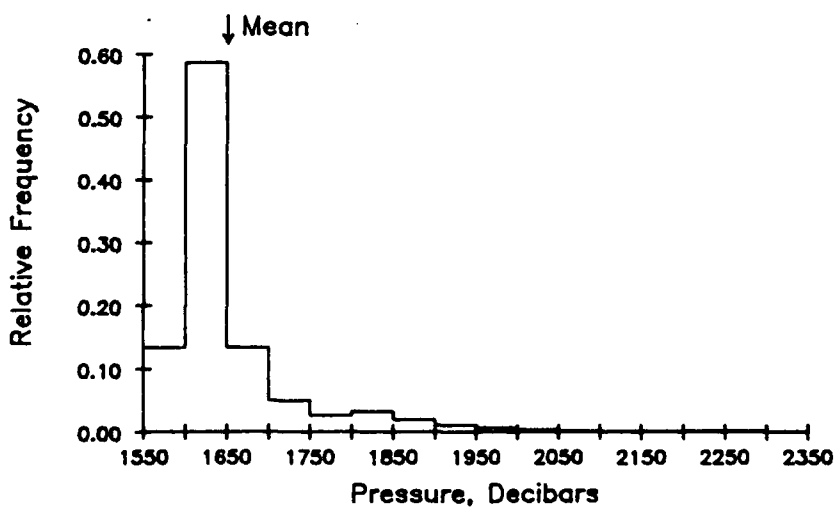
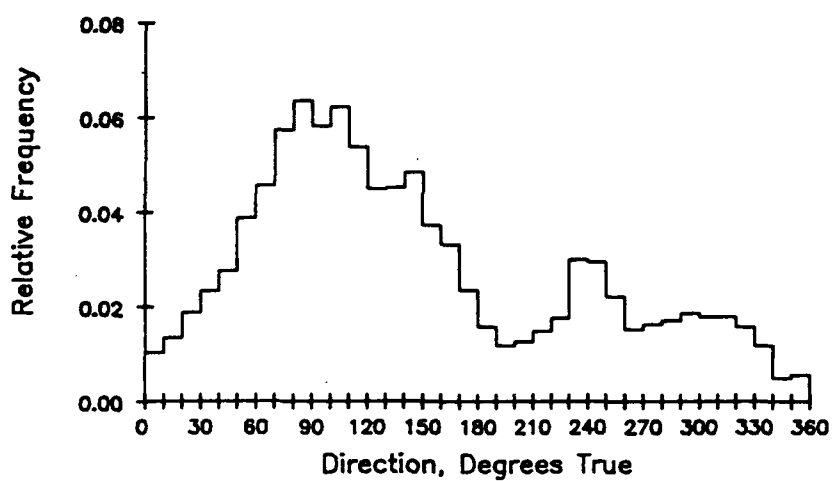
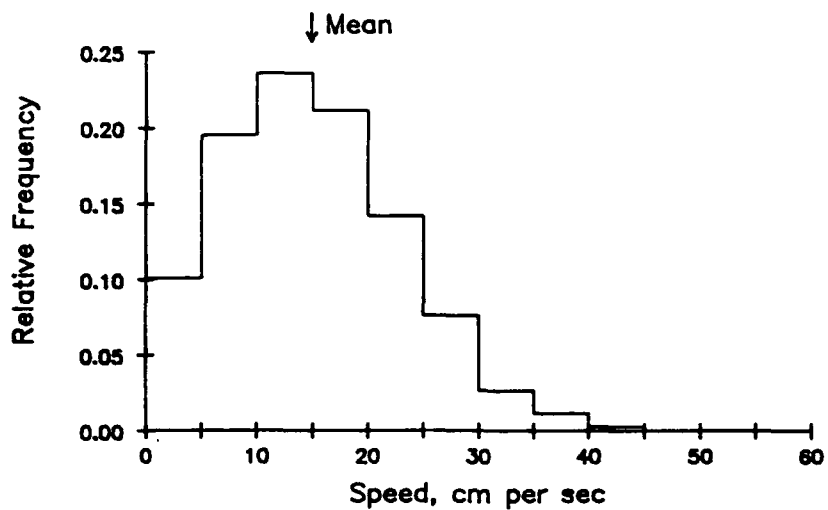
820 METERS AT MOORING 8. TAPE 7210/12.



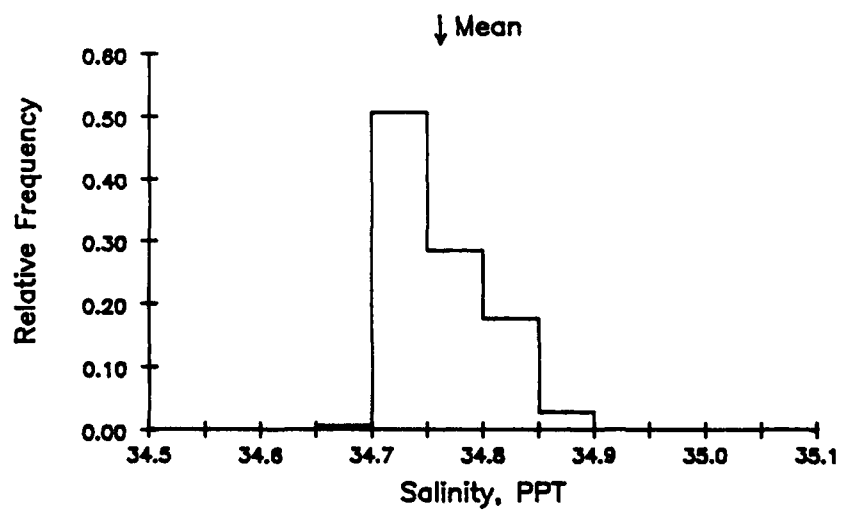
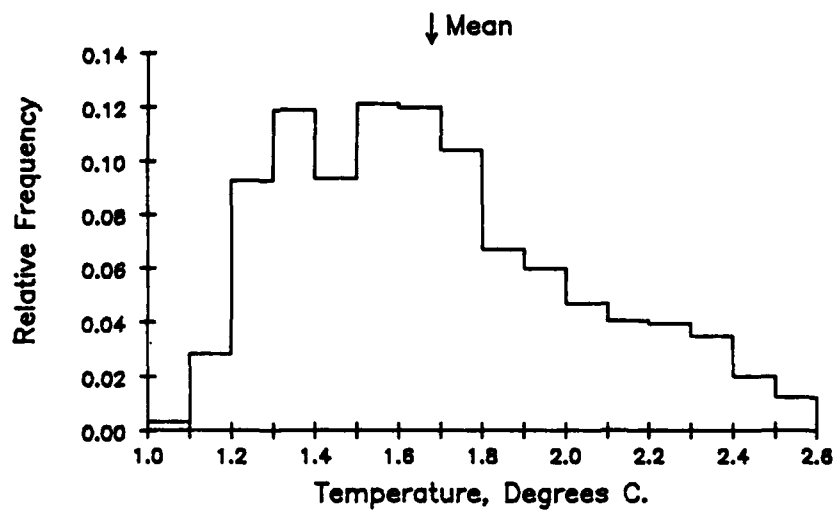
820 METERS AT MOORING 8. TAPE 7210/12.



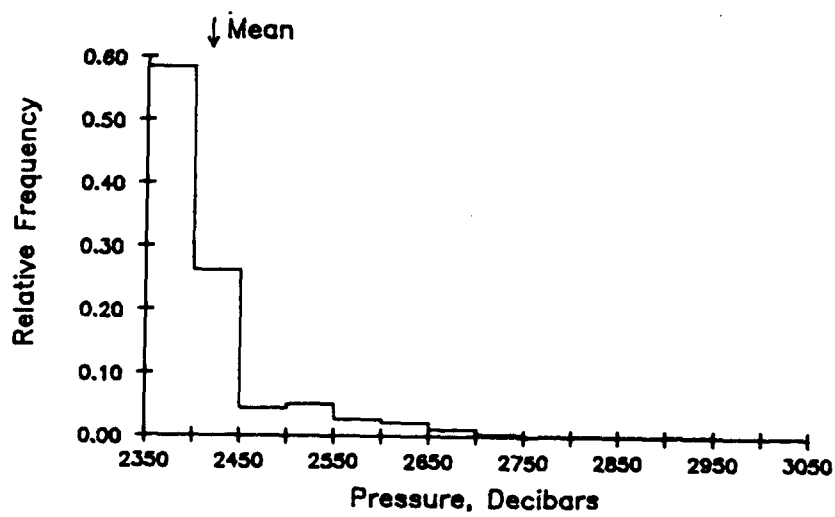
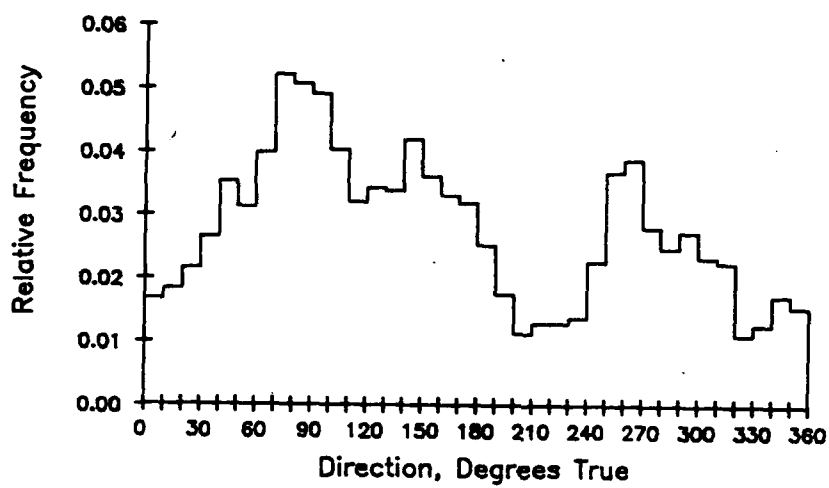
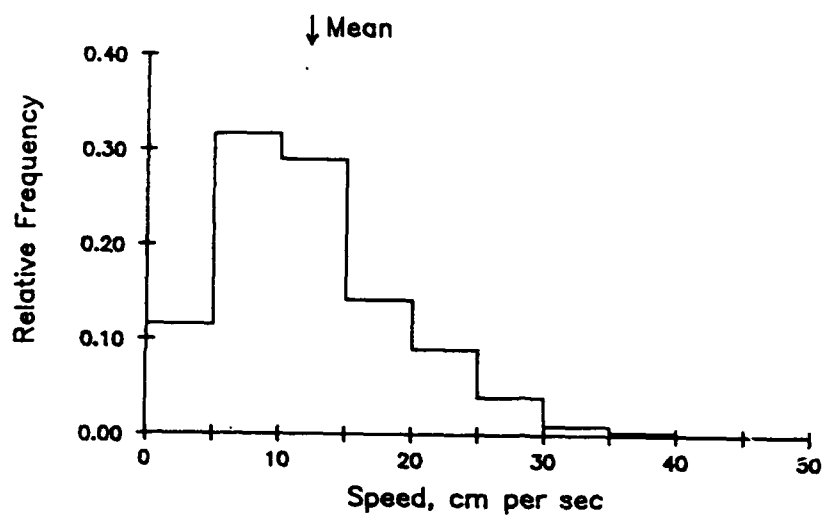
1540 METERS AT MOORING 8. TAPE 4584/6.



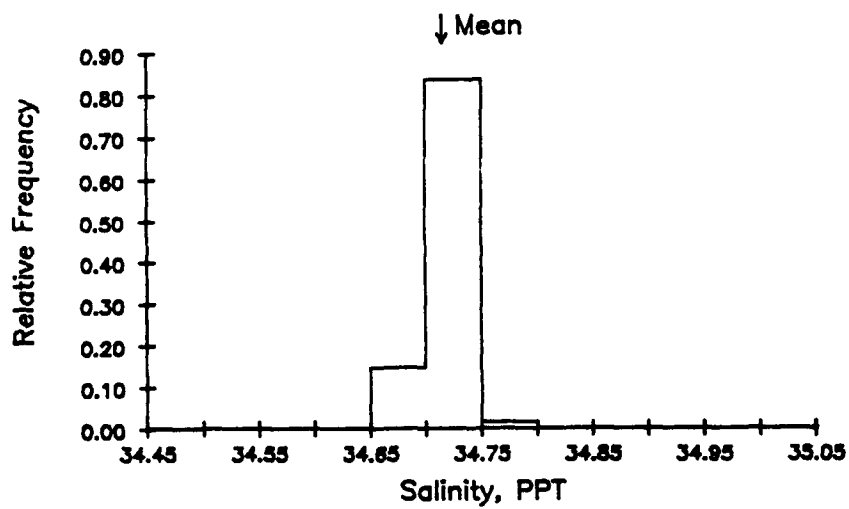
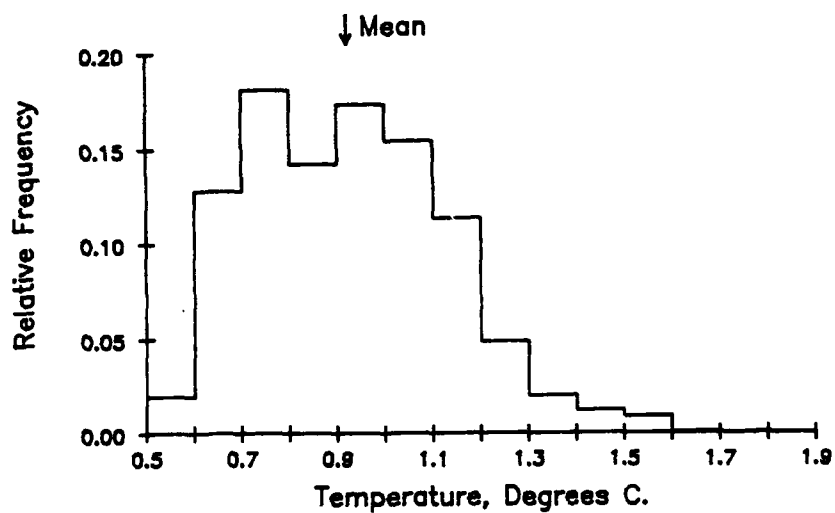
1540 METERS AT MOORING 8. TAPE 4584/6.



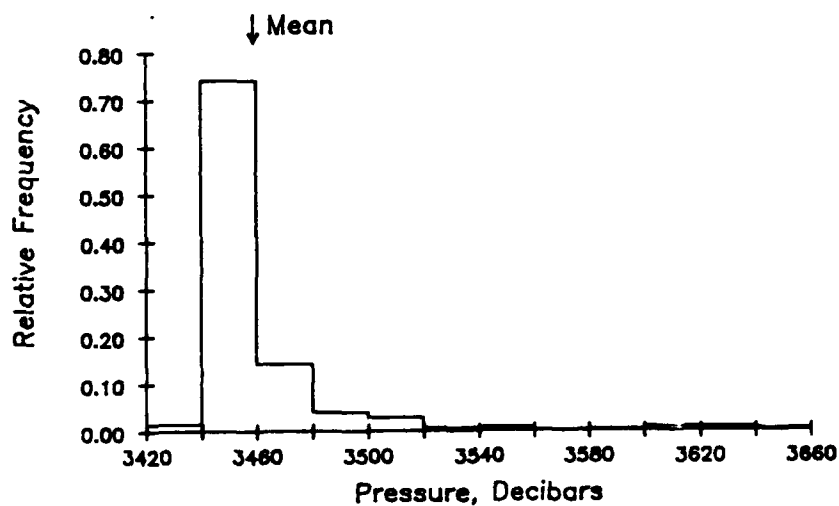
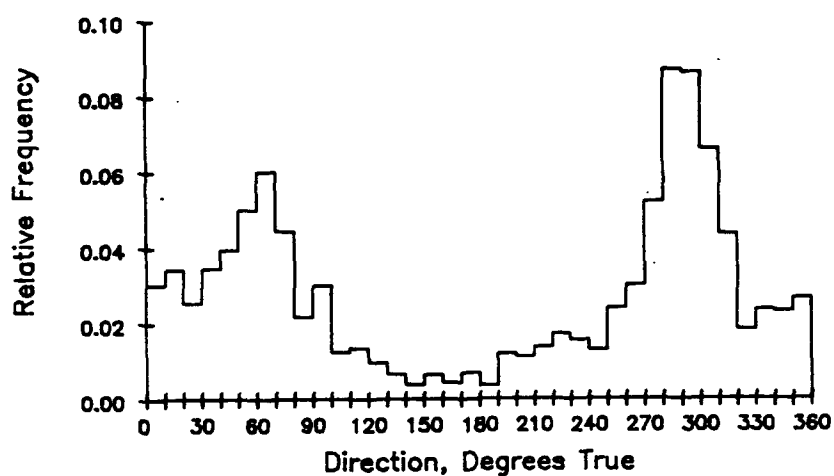
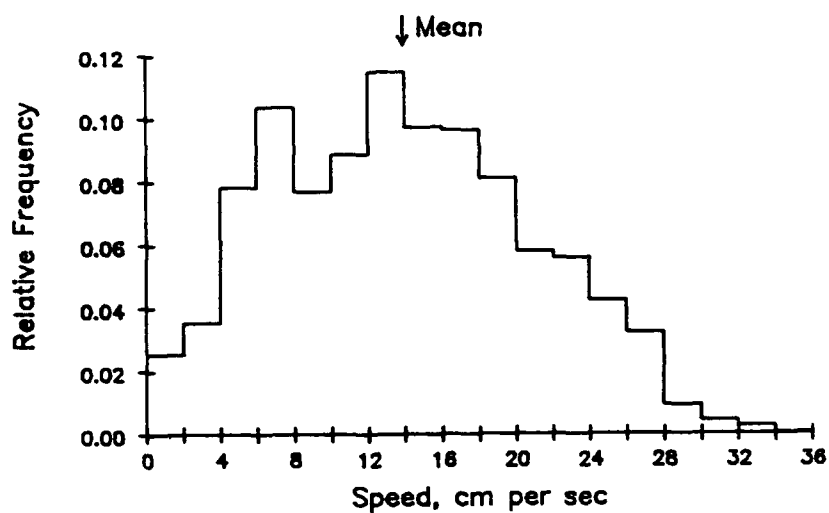
2335 METERS AT MOORING 8. TAPE 7163/12.



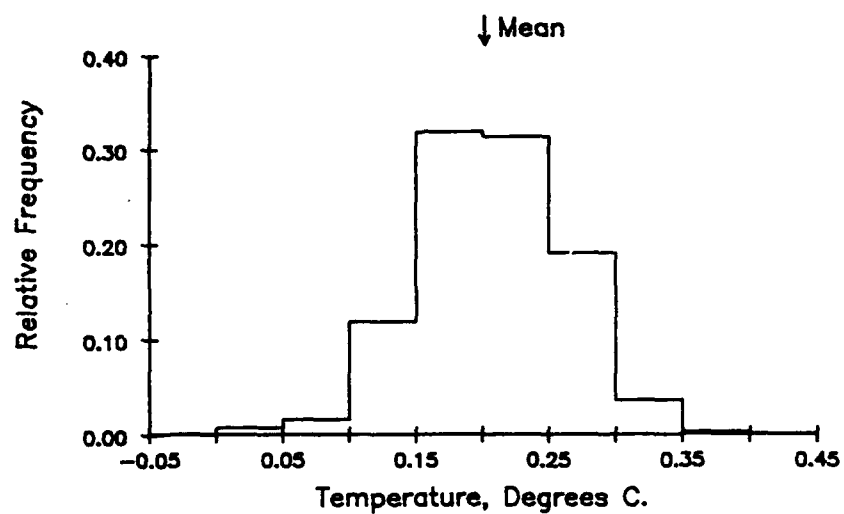
2355 METERS AT MOORING 8. TAPE 7163/12.



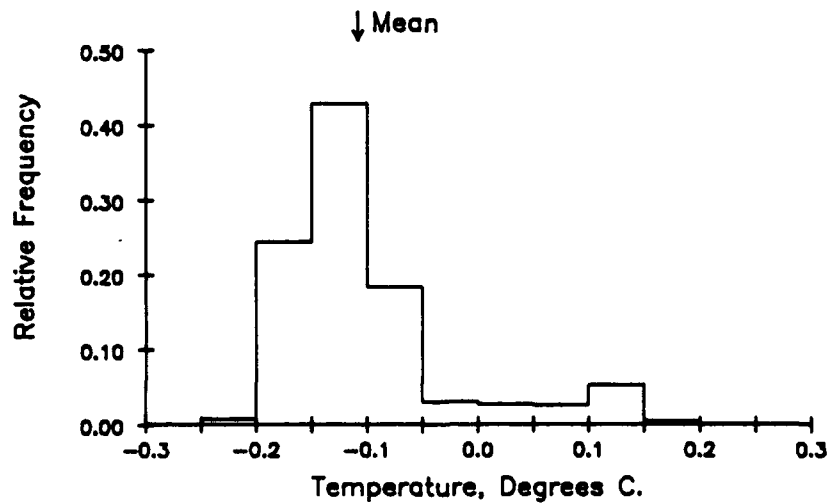
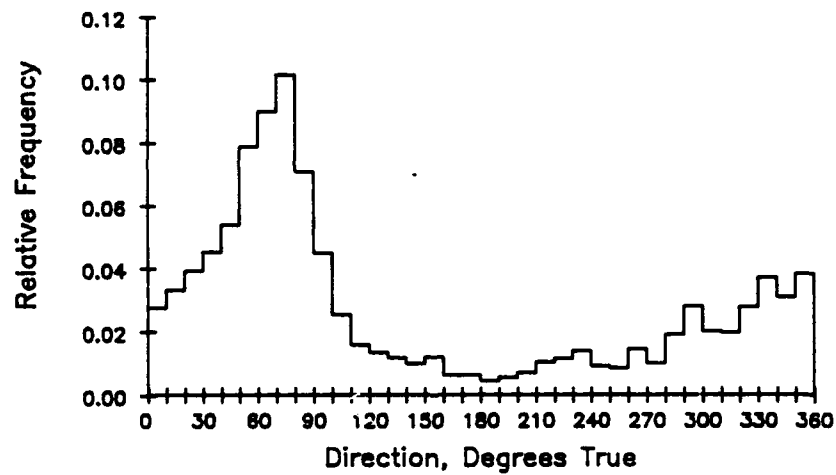
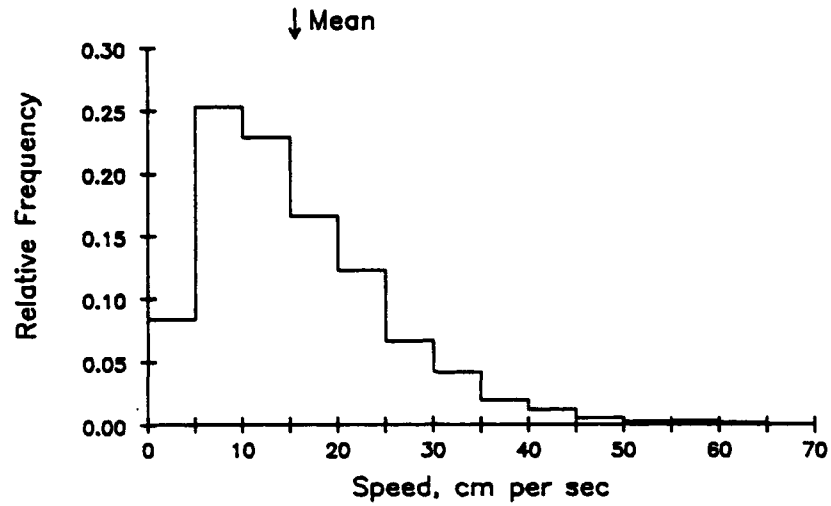
3370 METERS AT MOORING 8. TAPE 1964/38.



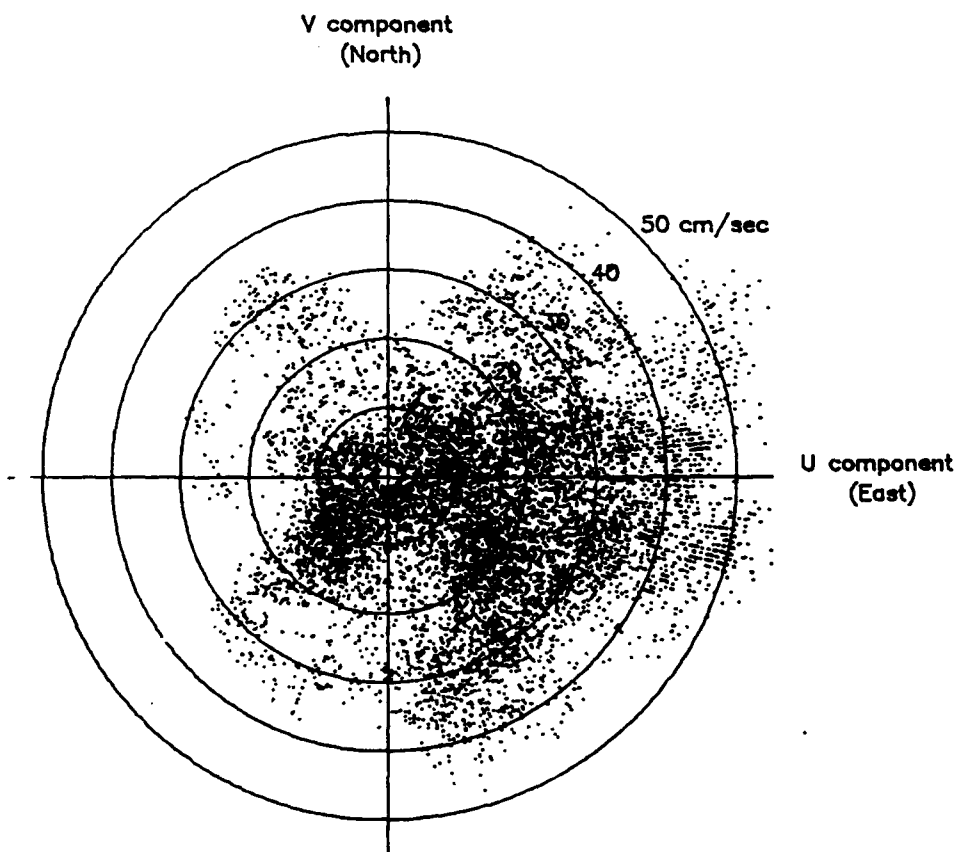
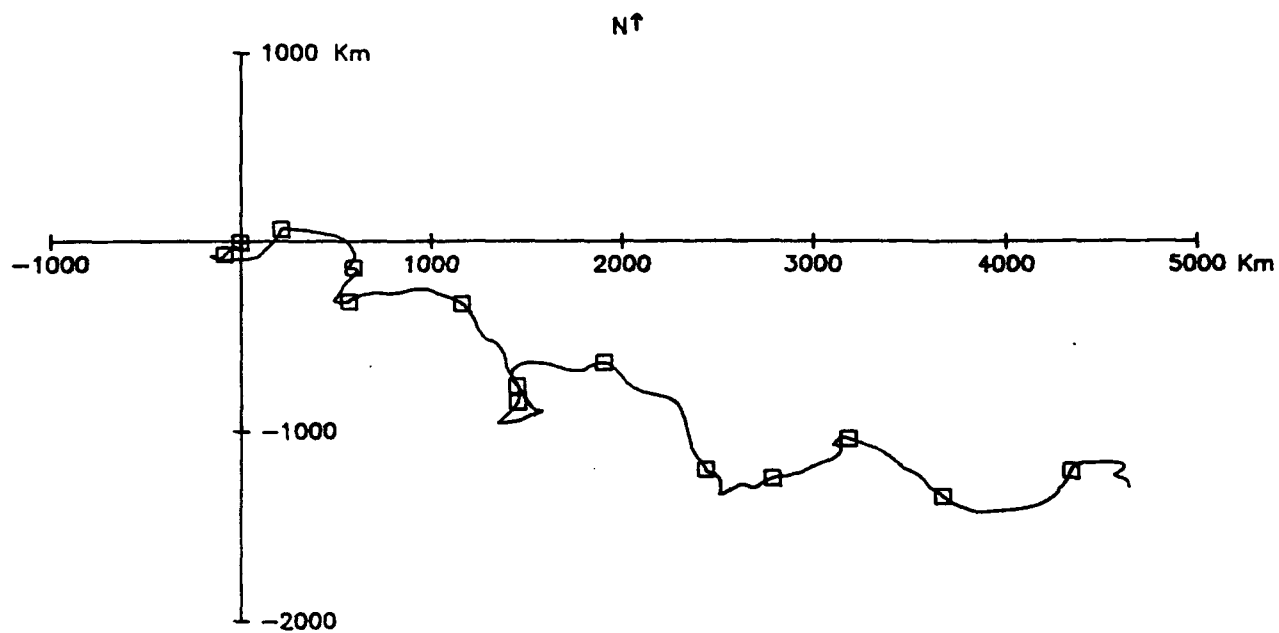
3370 METERS AT MOORING 8. TAPE 1964/38.



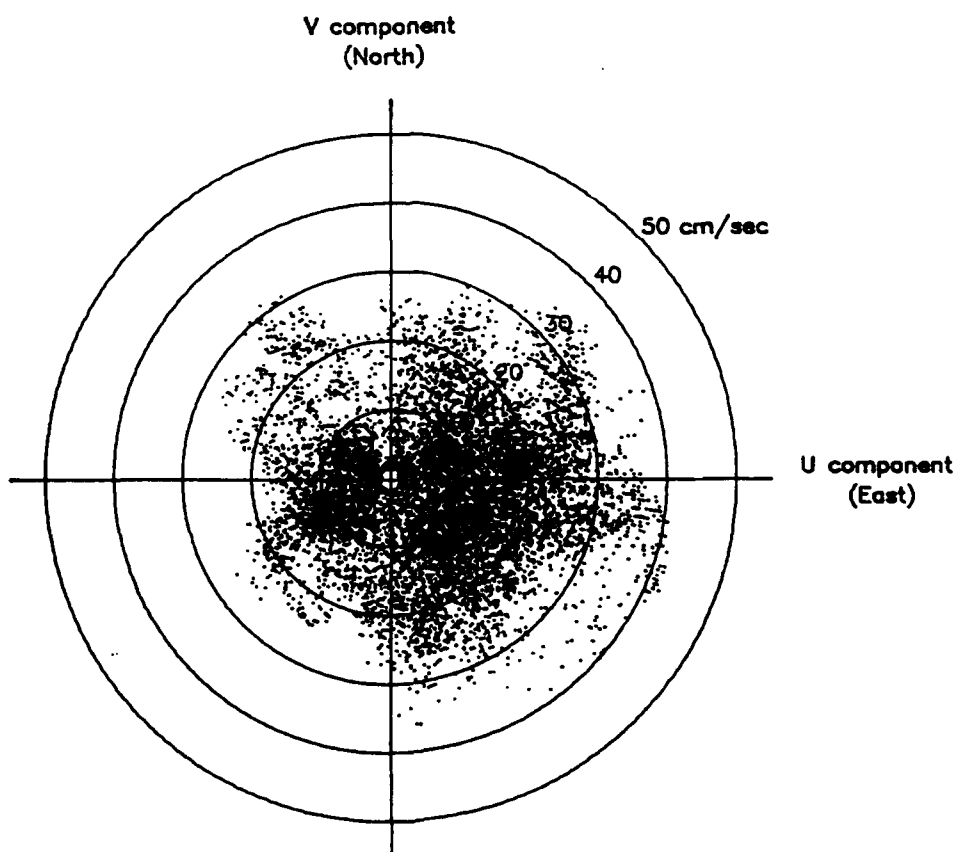
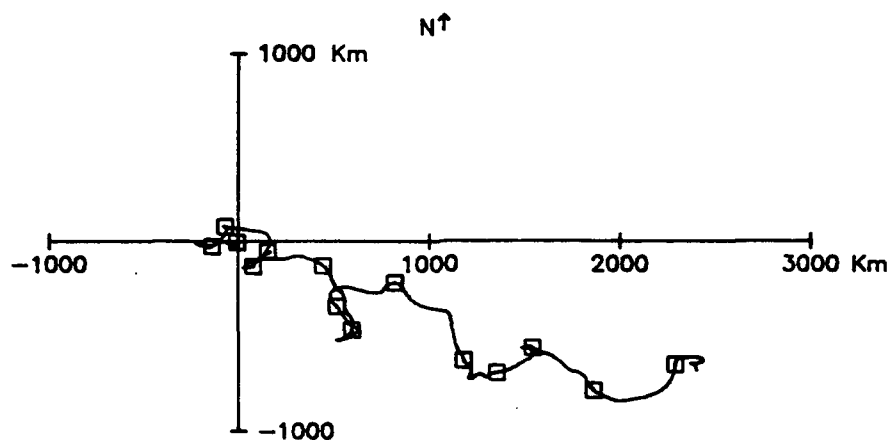
4420 METERS AT MOORING 8. TAPE 6087/13.



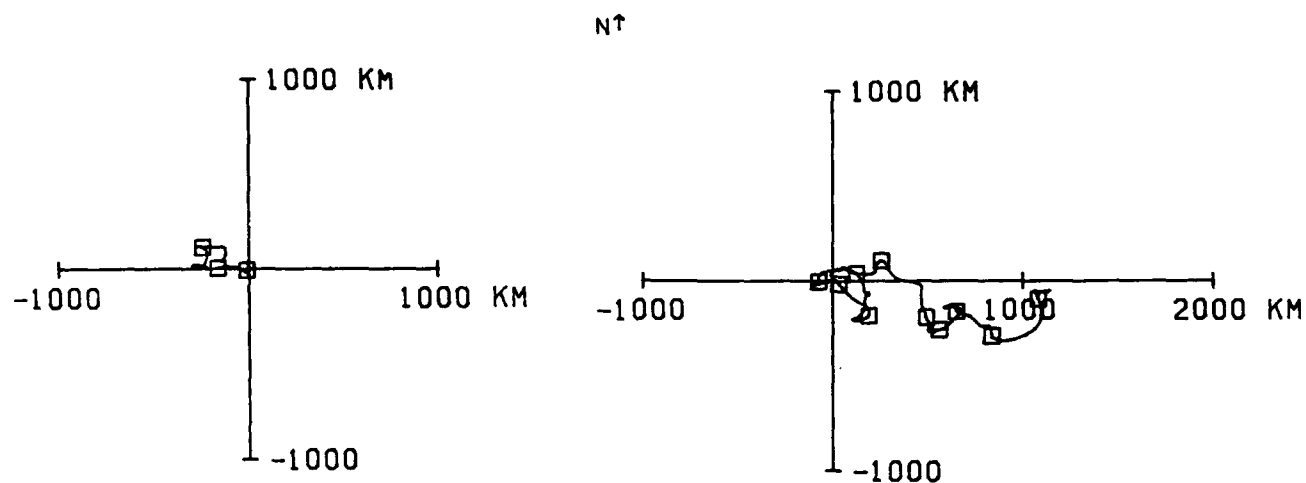
820M AT MOORING 8. 30 JAN 86 - 30 MAR 87. TAPE 7210/12.



1540M AT MOORING 8. 30 JAN 86 - 30 MAR 87. TAPE 4584/6.

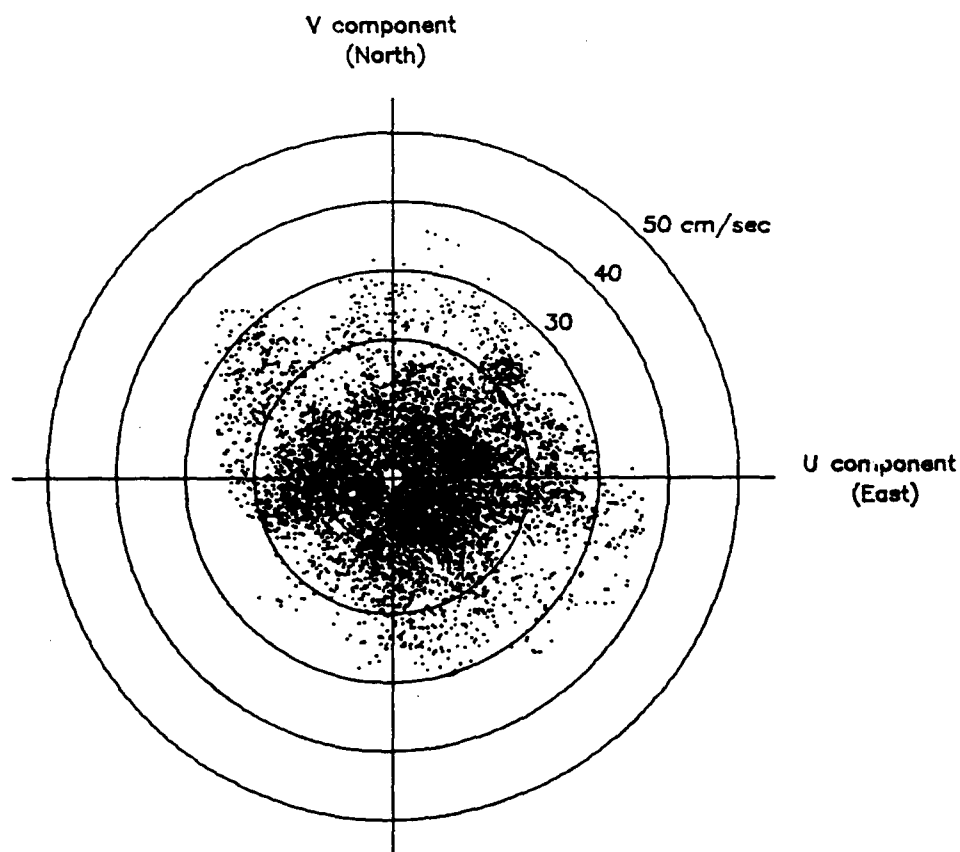


2355M AT MOORING 8. 30 JAN 86 - 30 MAR 87. TAPE 7163/12.

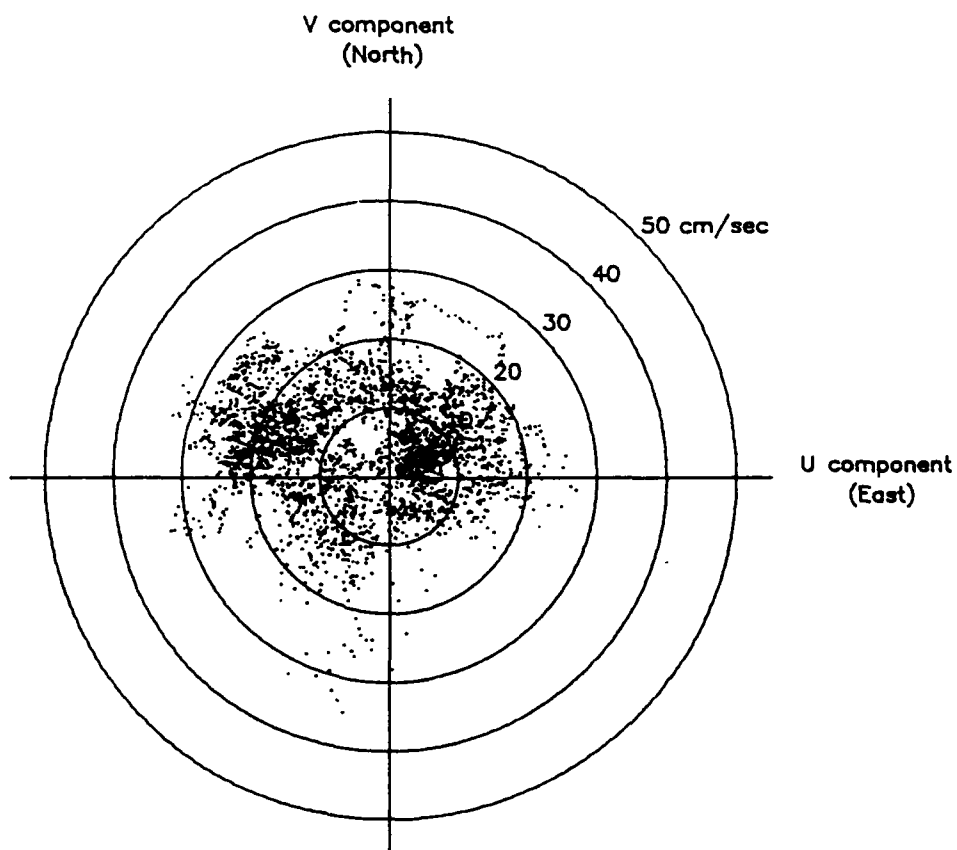
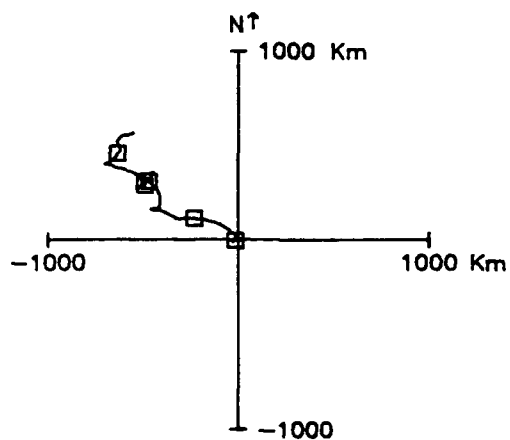


30 JAN 86 - 25 APR 86.

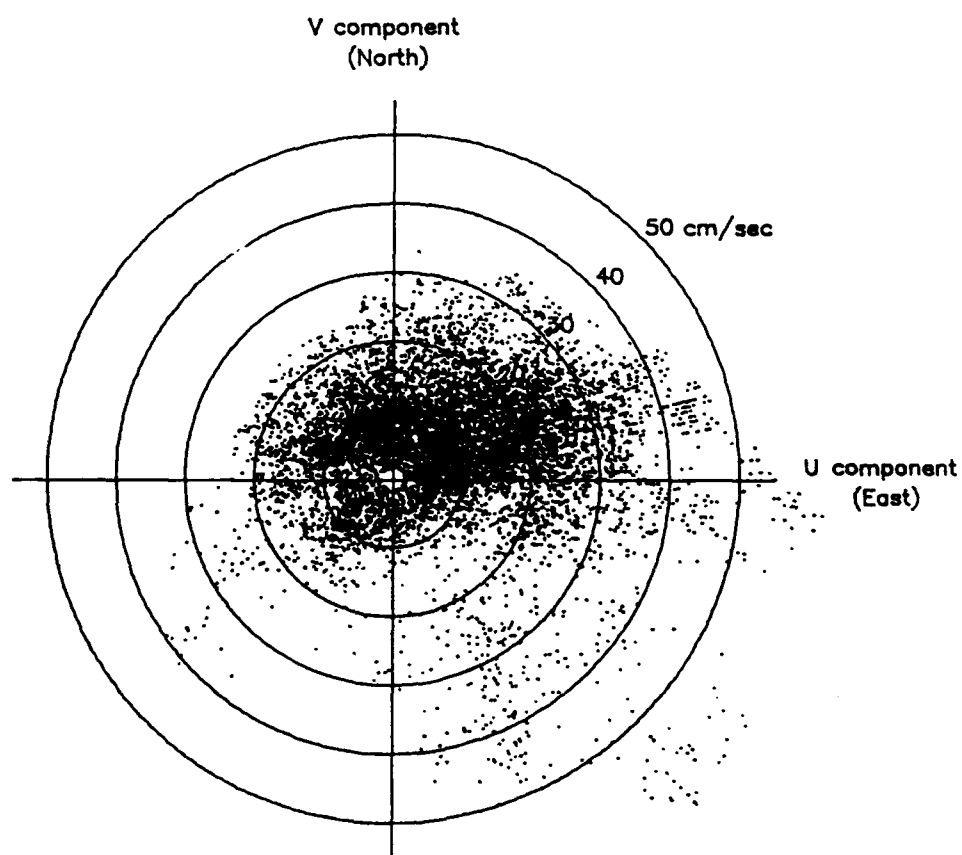
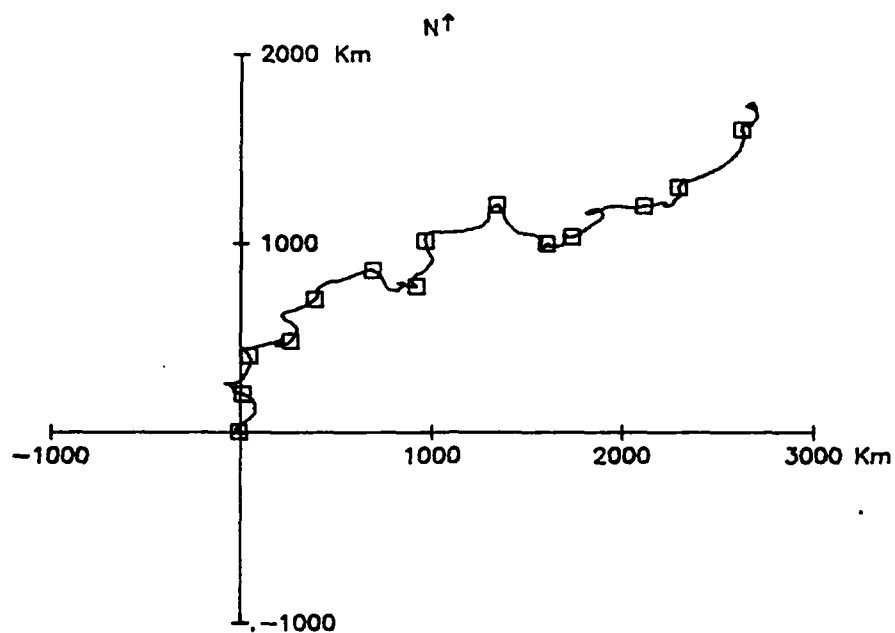
10 MAY 86 - 30 MAR 87.



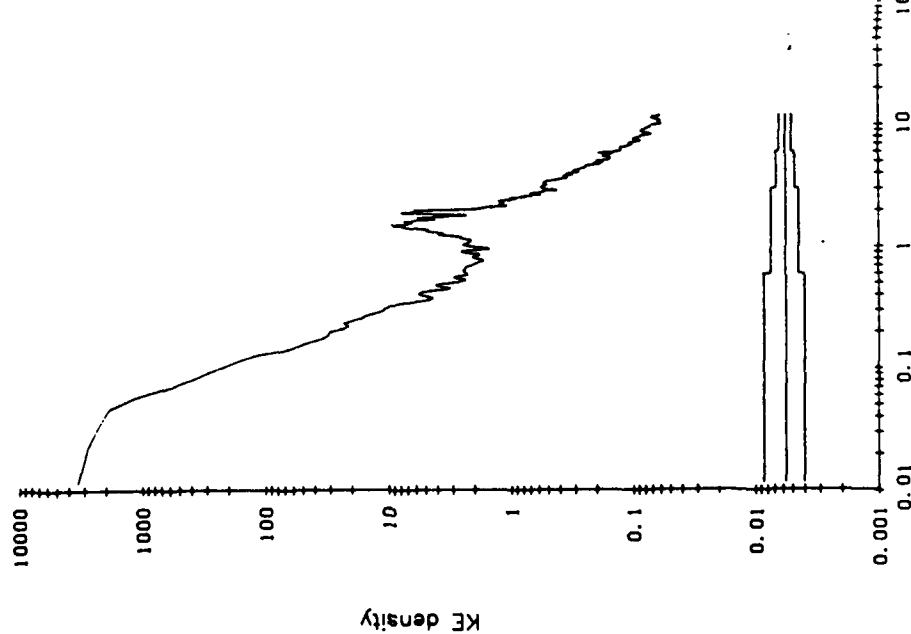
3370M AT MOORING 8. 30 JAN 86 - 21 JUN 86. TAPE 1964/38.



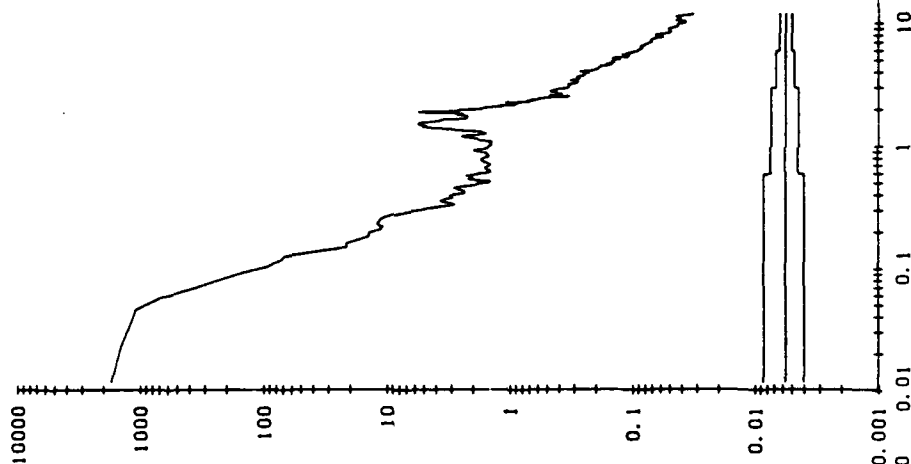
4420M AT MOORING 8. 30 JAN 86 - 30 MAR 87. TAPE 6087/13.



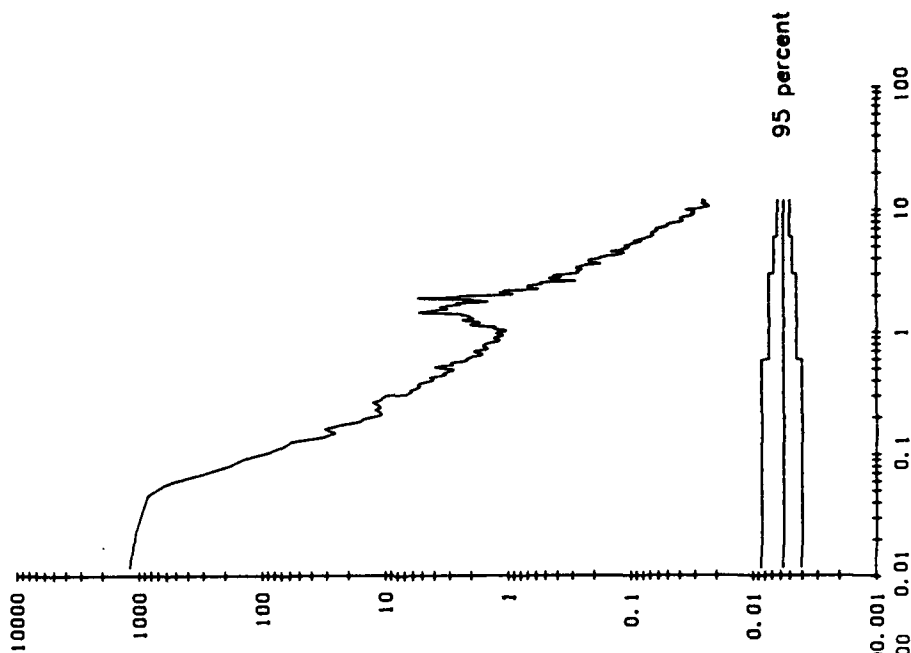
Unfiltered current. 820 m at Mooring 8.
Both components



Unfiltered current. 1540 m at Mooring 8.
Both components

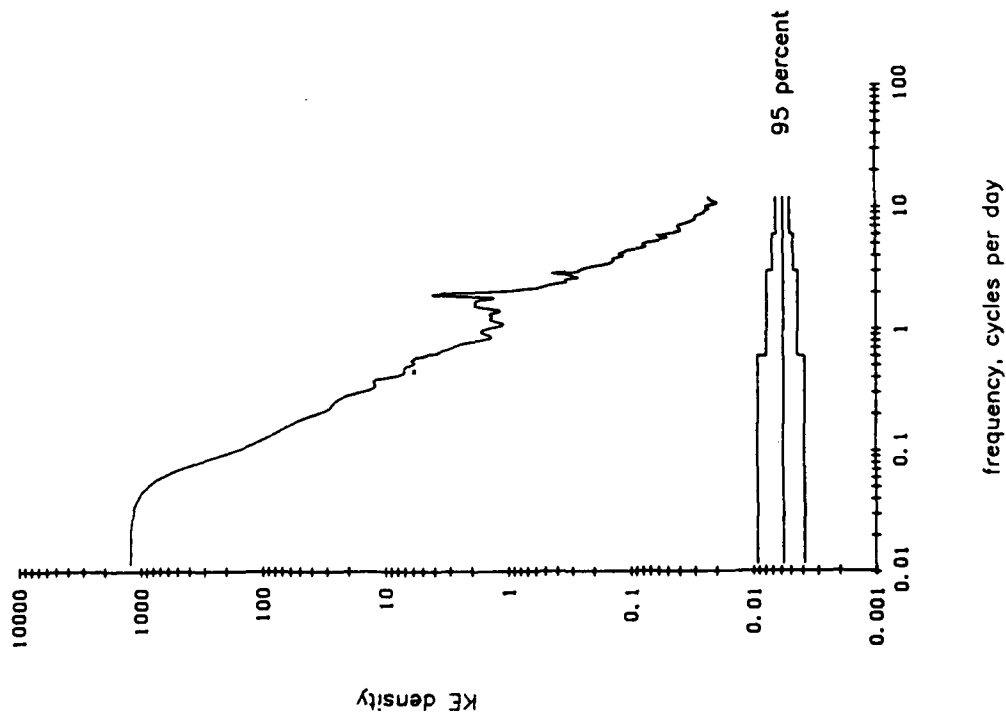


Unfiltered current. 2335 m at Mooring 8.
Both components

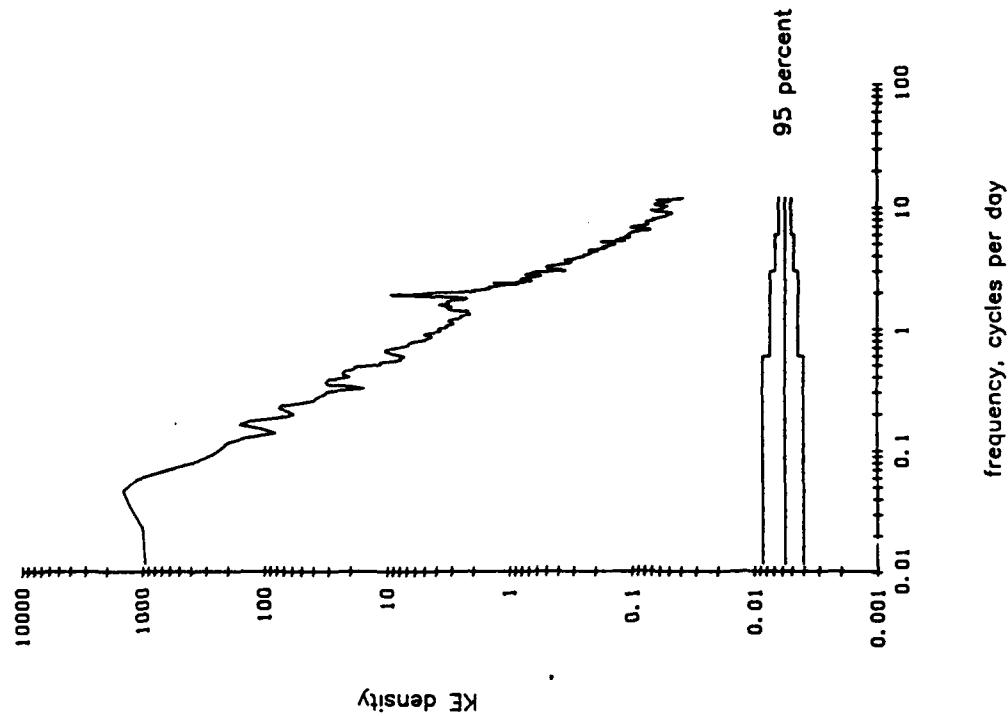


frequency, cycles per day

Unfiltered current. 3370 m at Mooring 8.
Both components



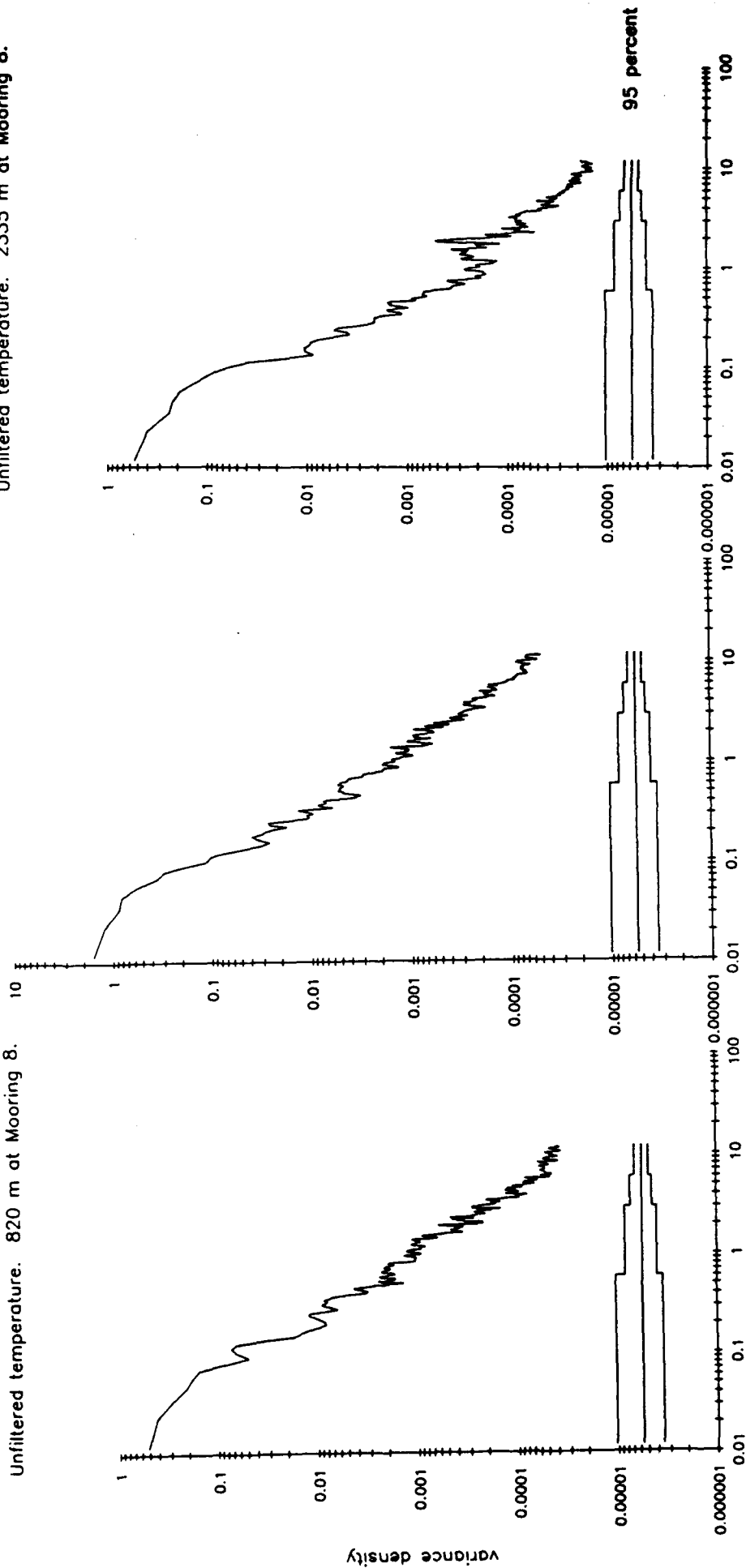
Unfiltered current. 4420 m at Mooring 8.
Both components



Unfiltered temperature. 1540 m at Mooring 8.

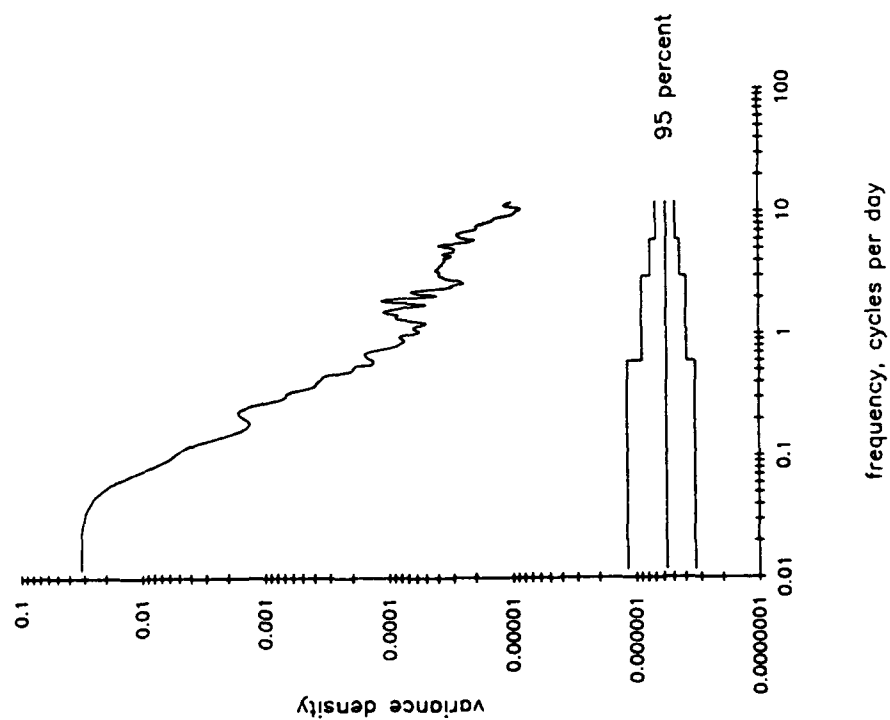
Unfiltered temperature. 820 m at Mooring 8.

Unfiltered temperature. 2335 m at Mooring 8.

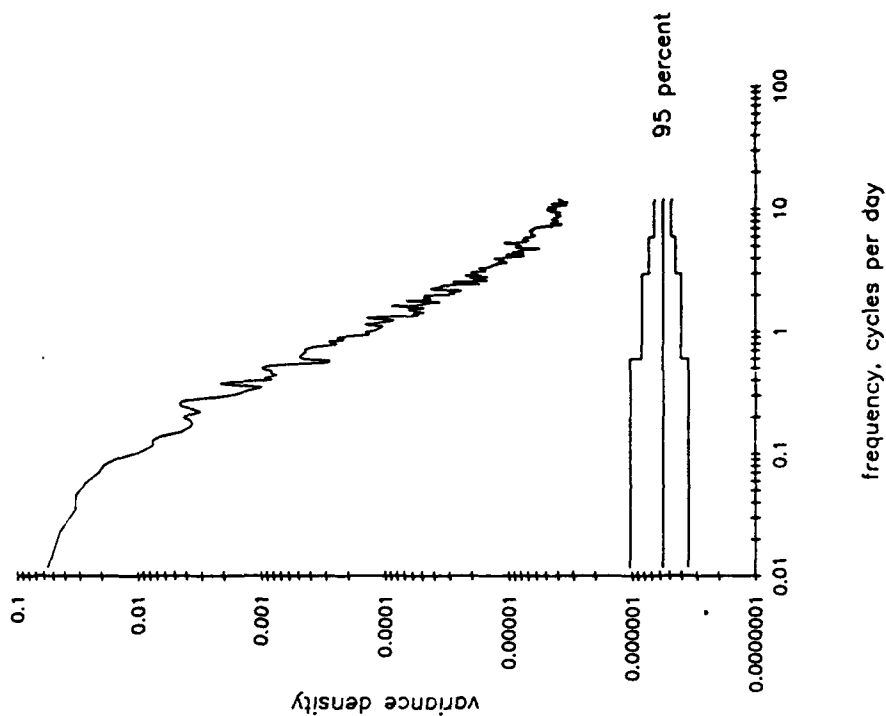


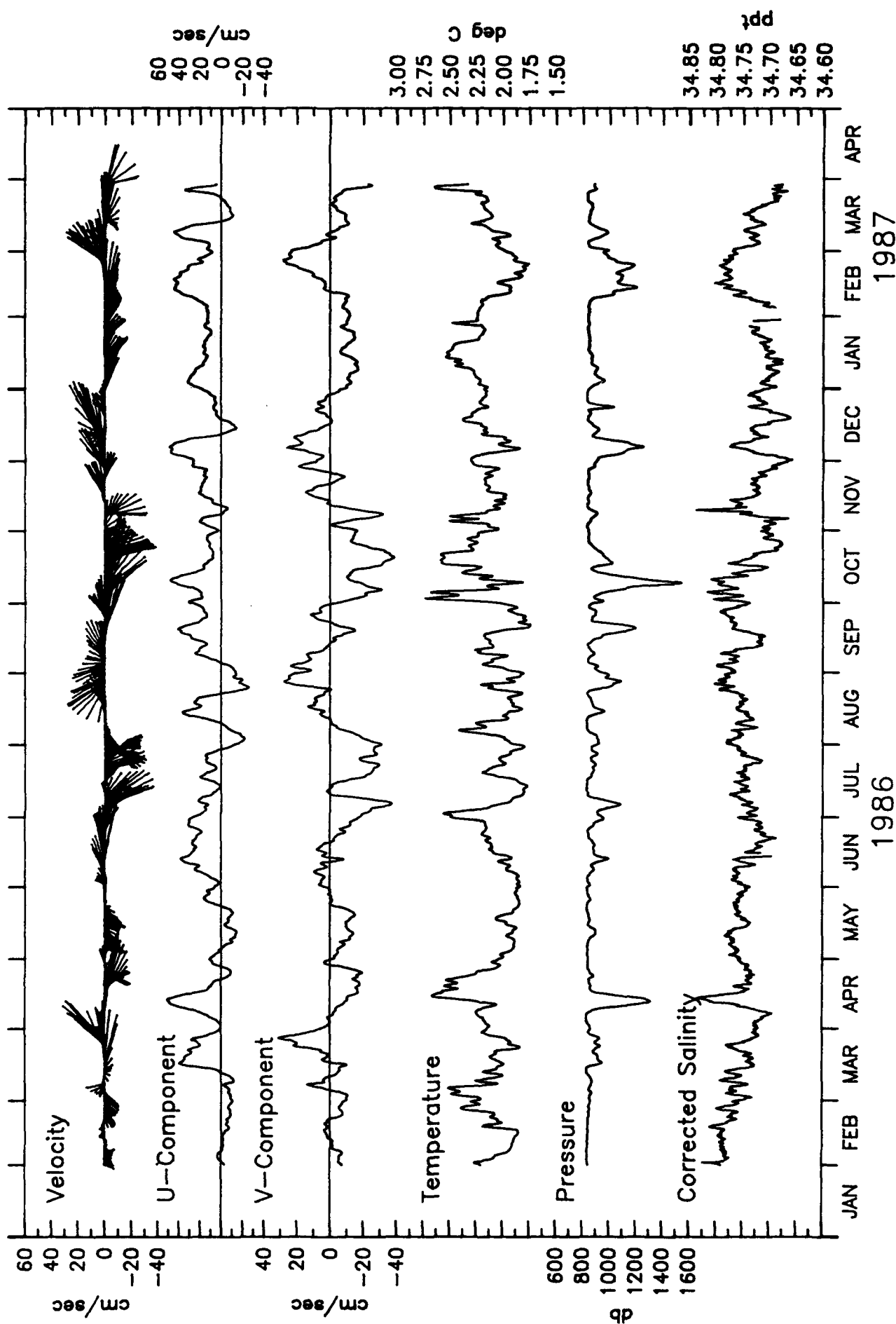
frequency, cycles per day

Unfiltered temperature. 3370 m at Mooring 8.

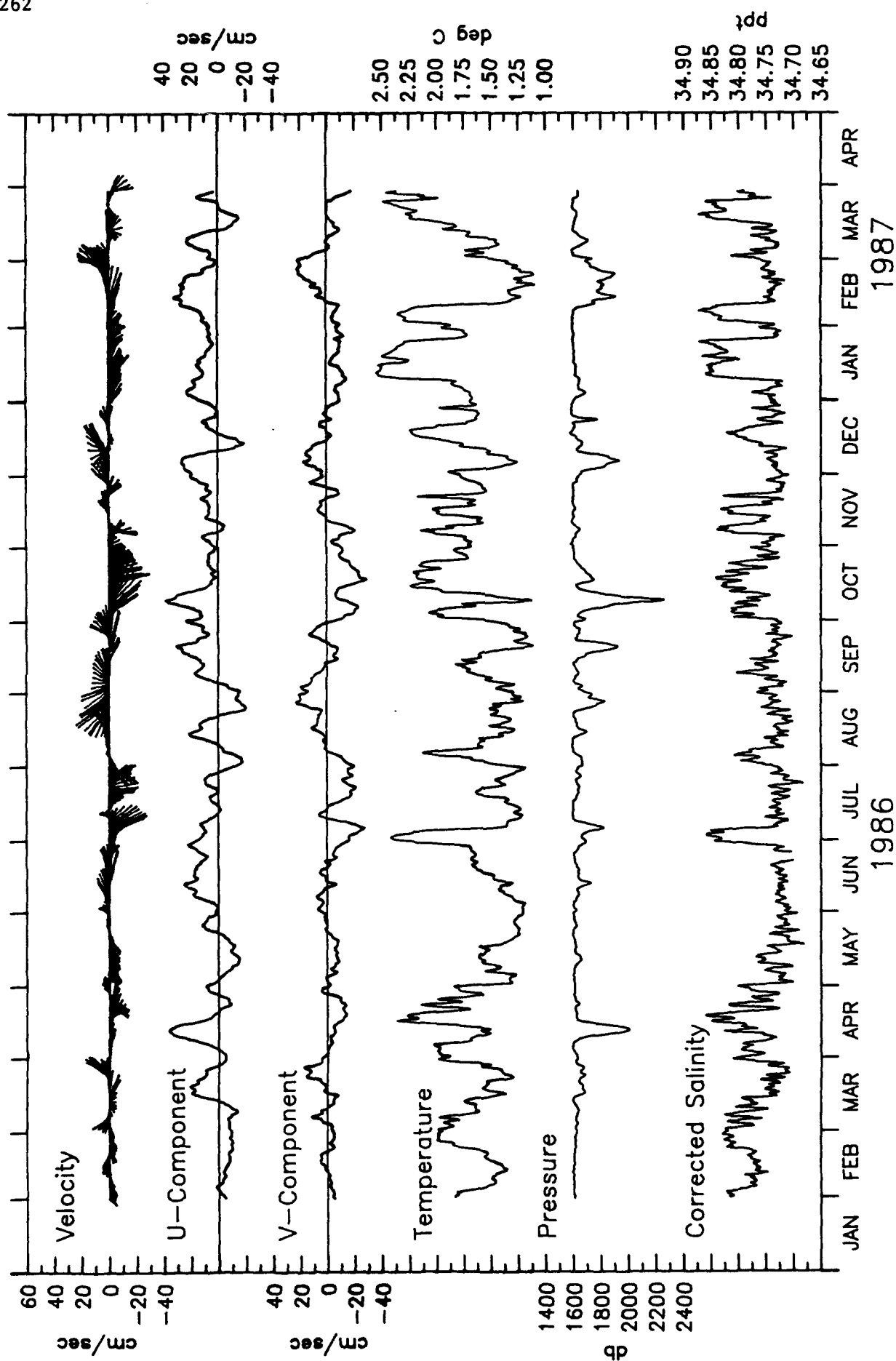


Unfiltered temperature. 4420 m at Mooring 8.

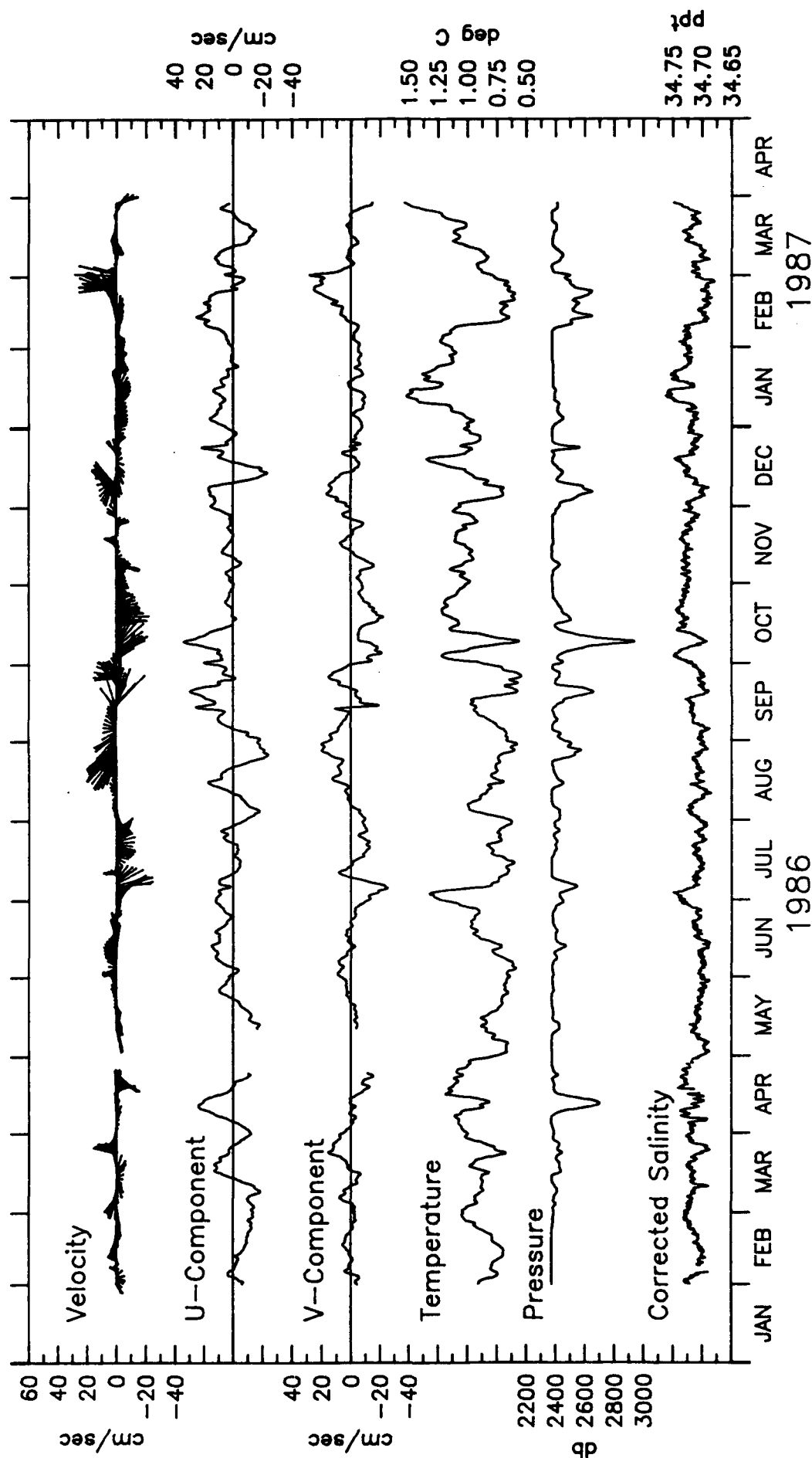




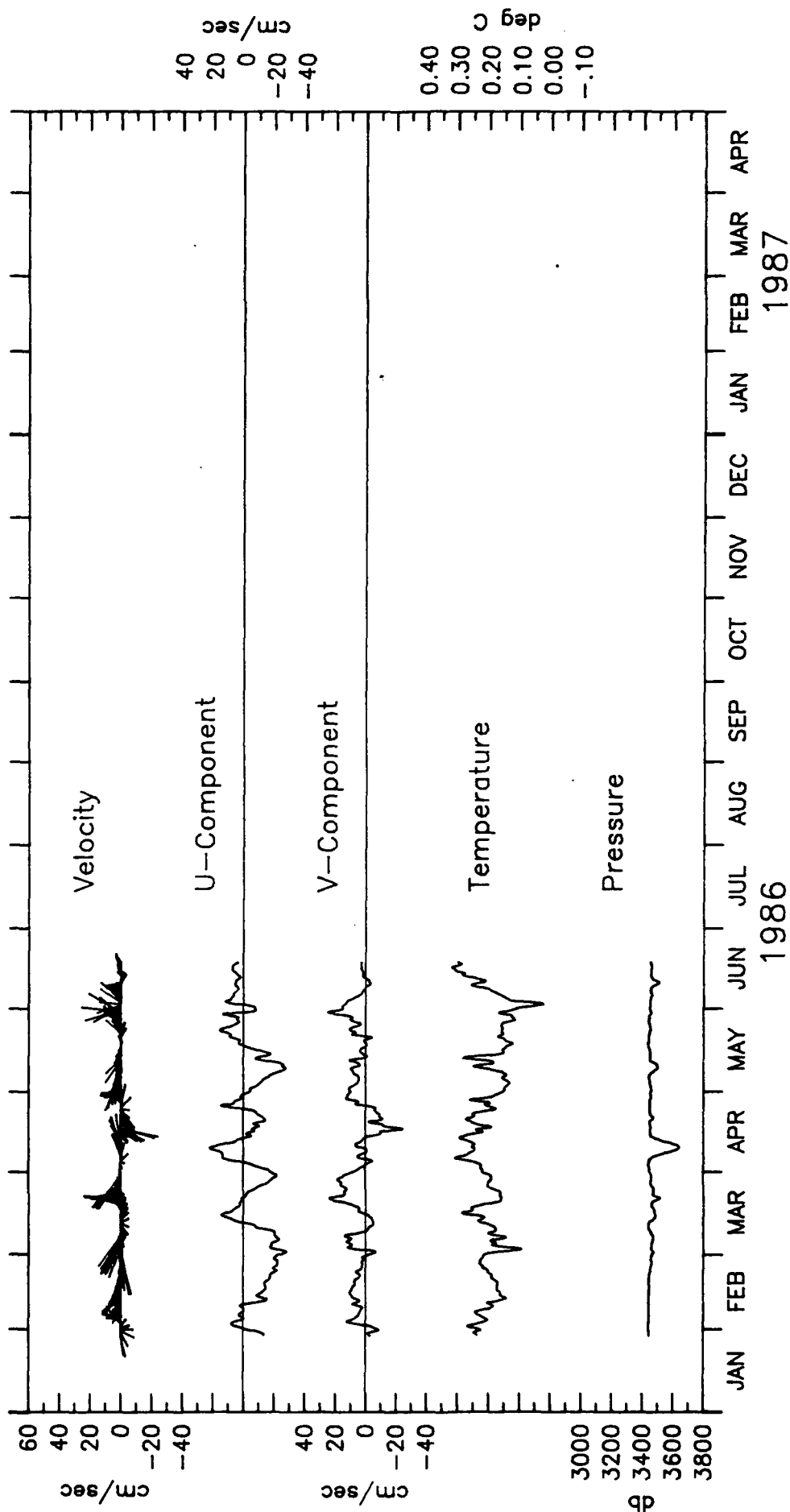
820 M AT MOORING 8.



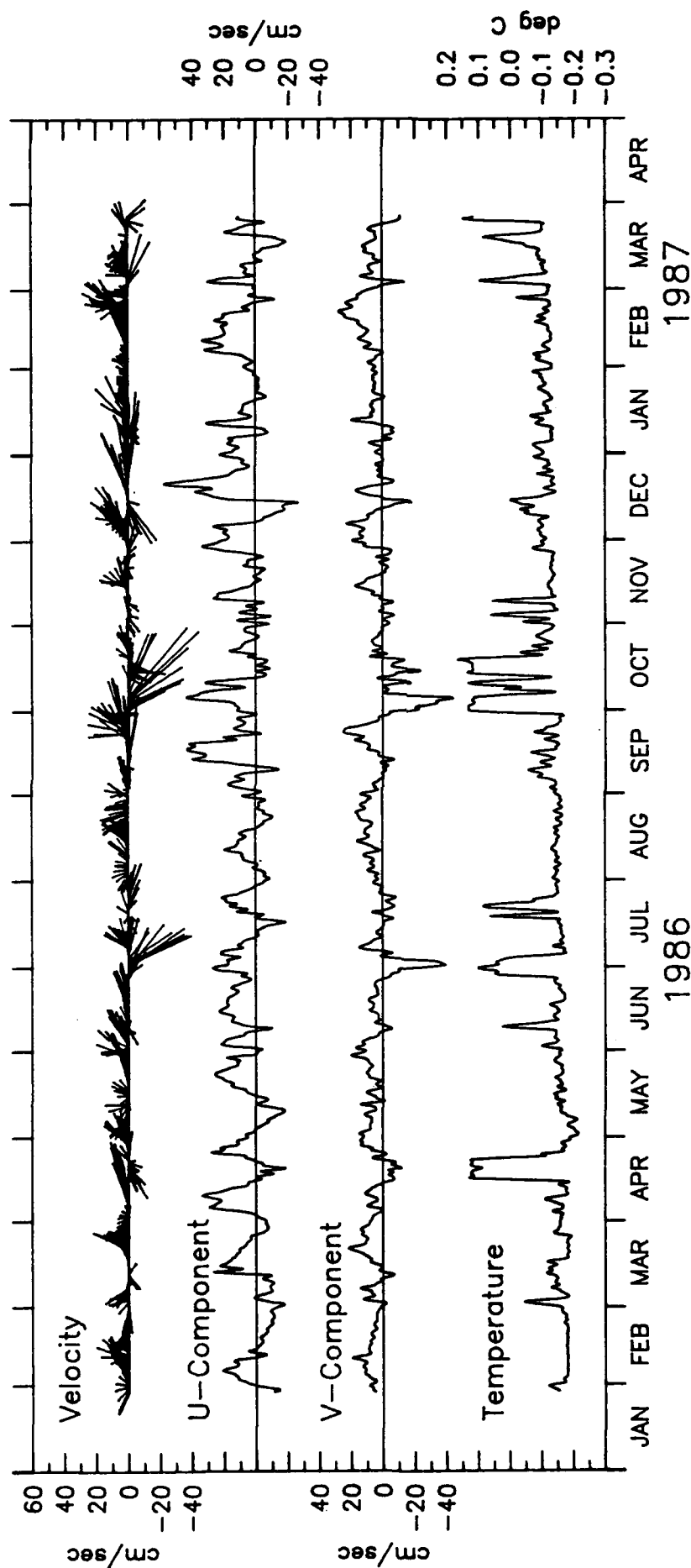
1540 M AT MOORING 8.



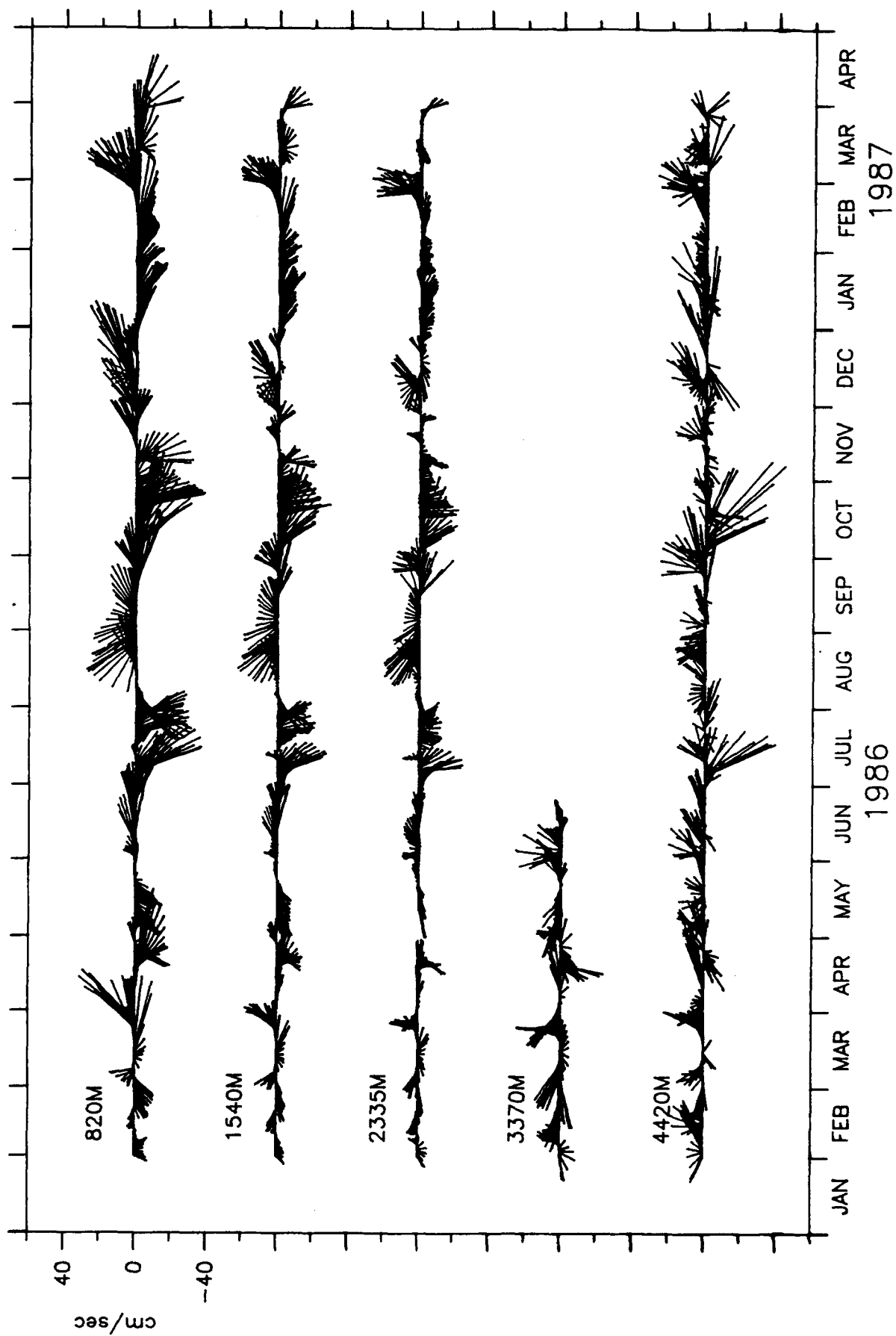
2335 M AT MOORING 8.



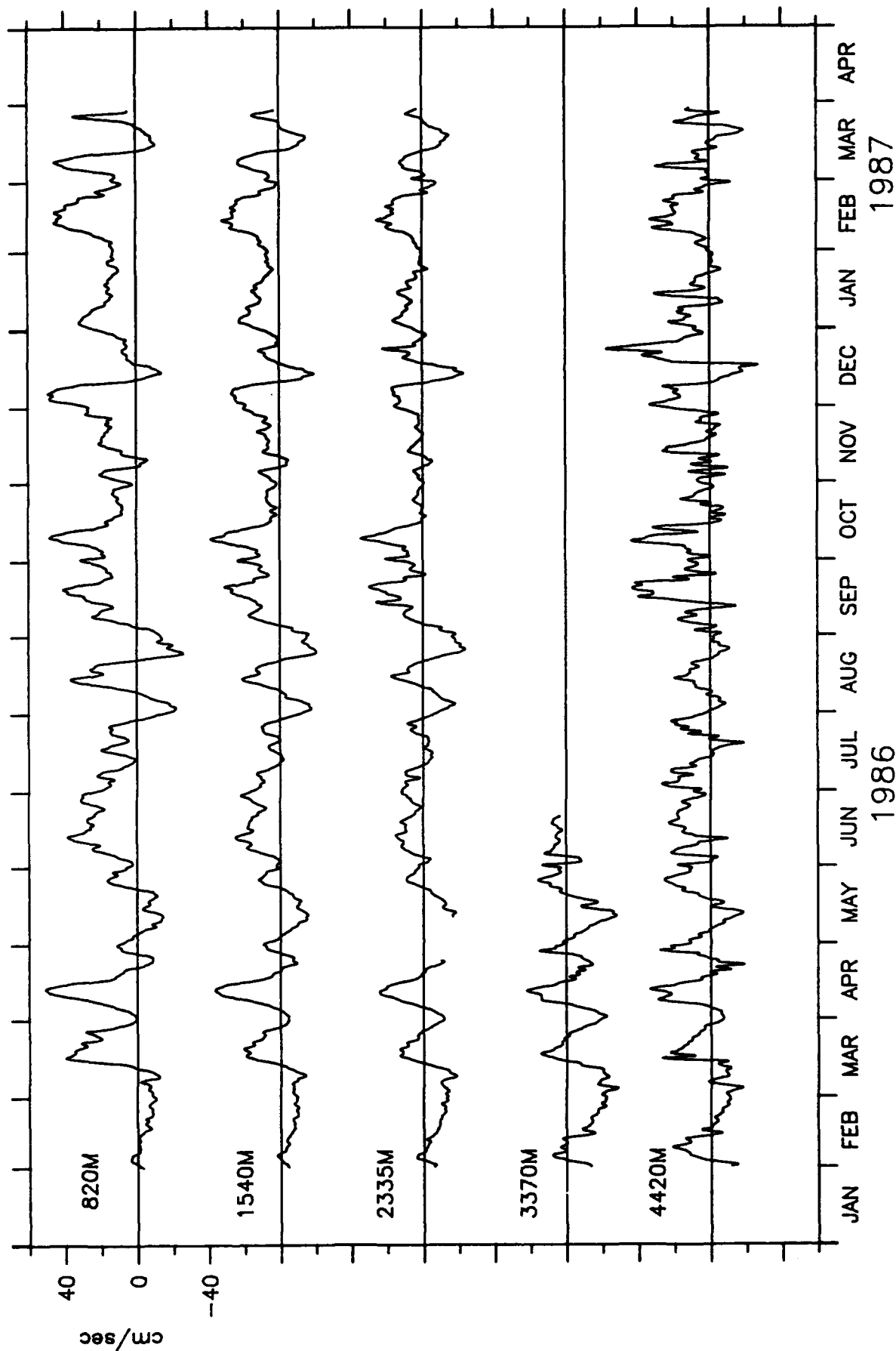
3370M AT MOORING 8.



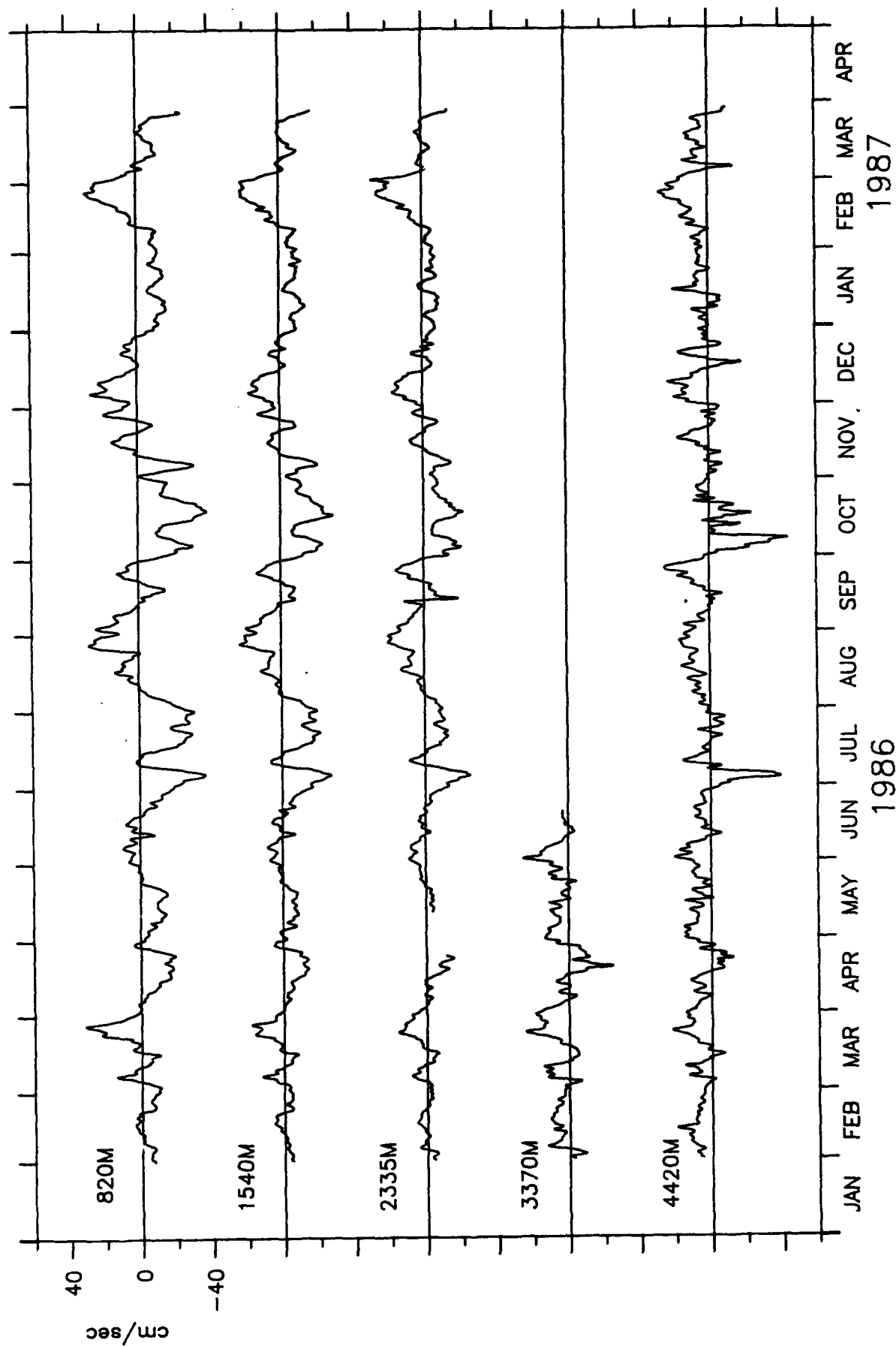
4420M AT MOORING 8.



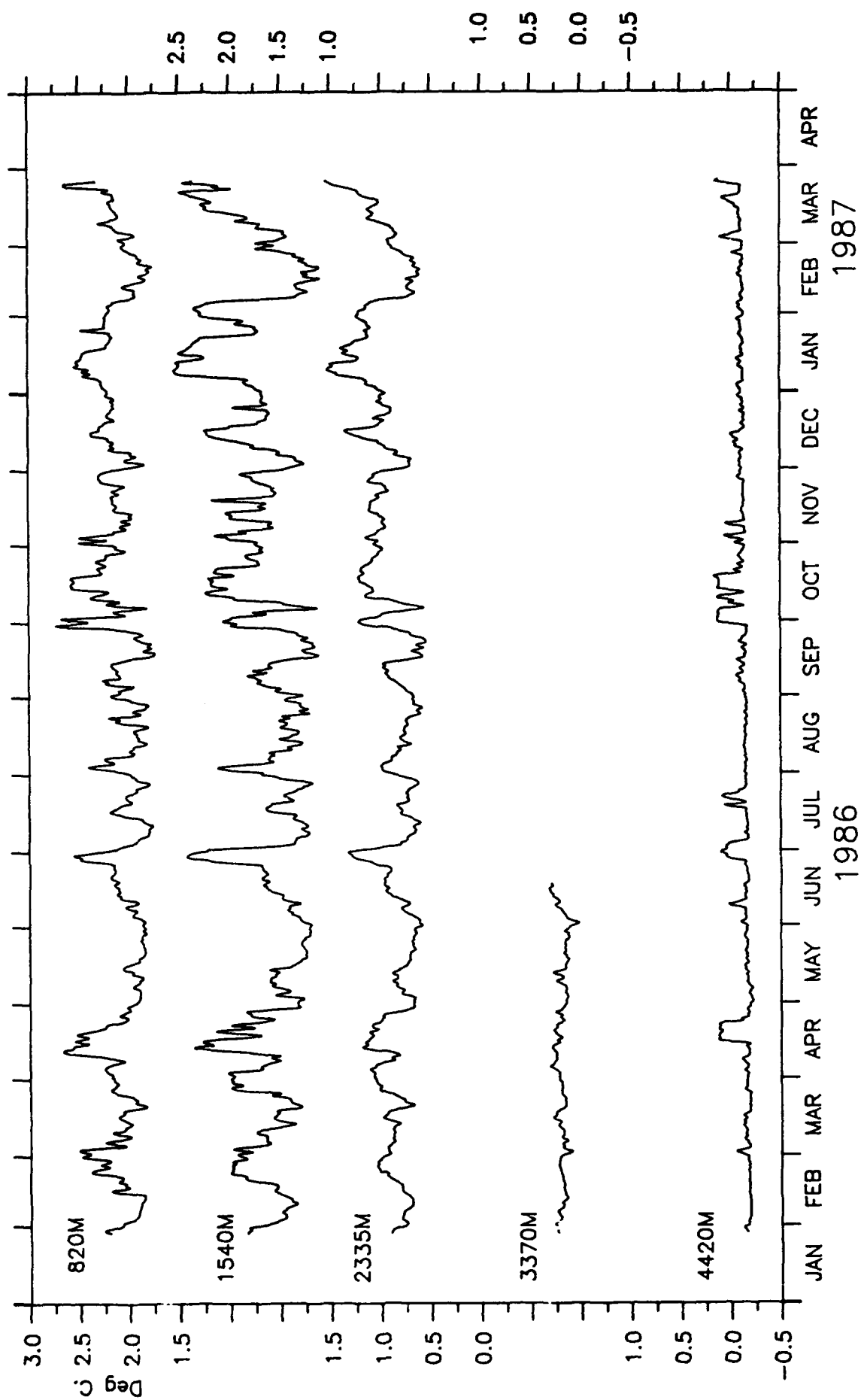
VELOCITY, MOORING 8.



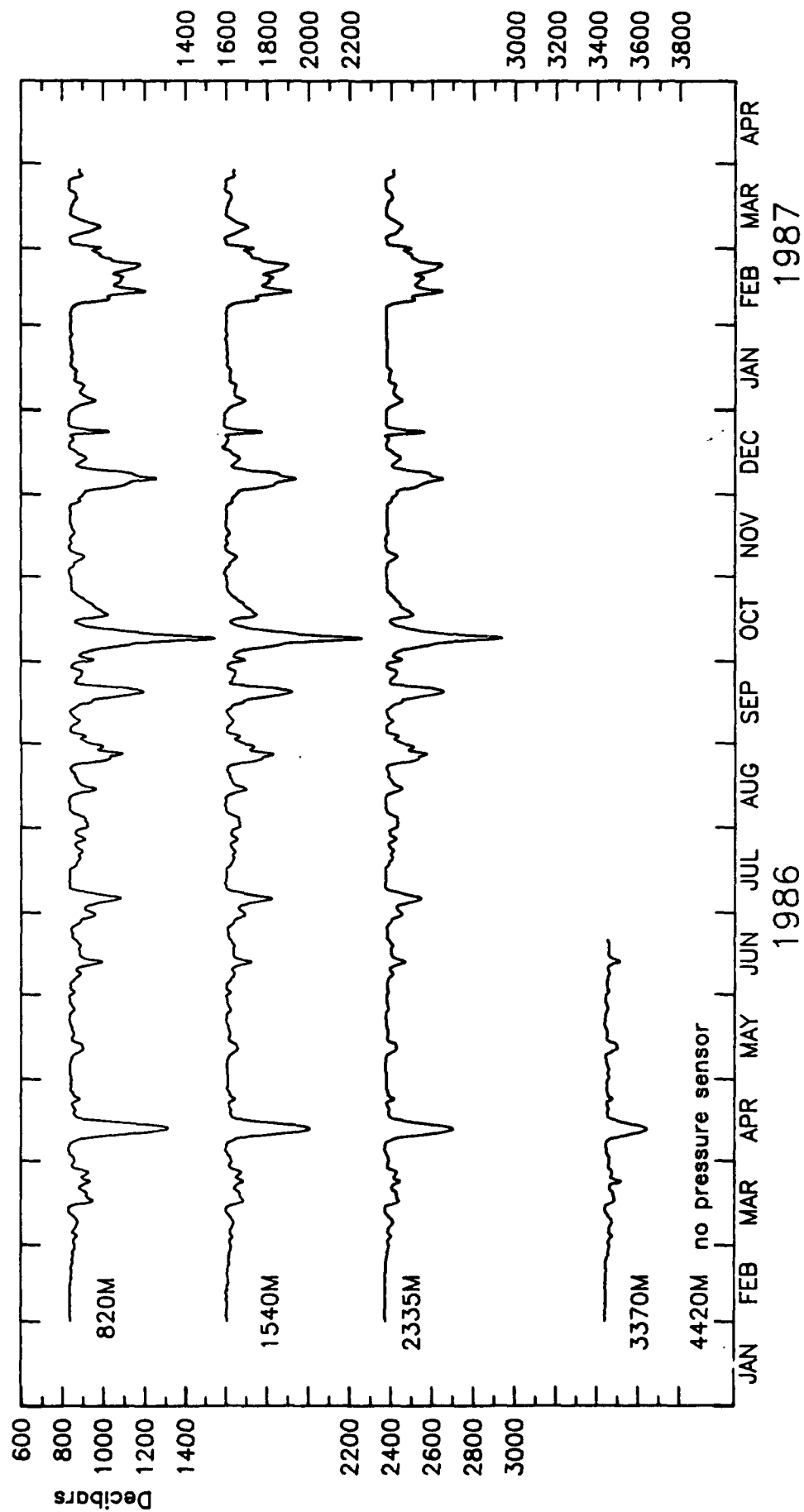
U-COMPONENT MOORING 8.



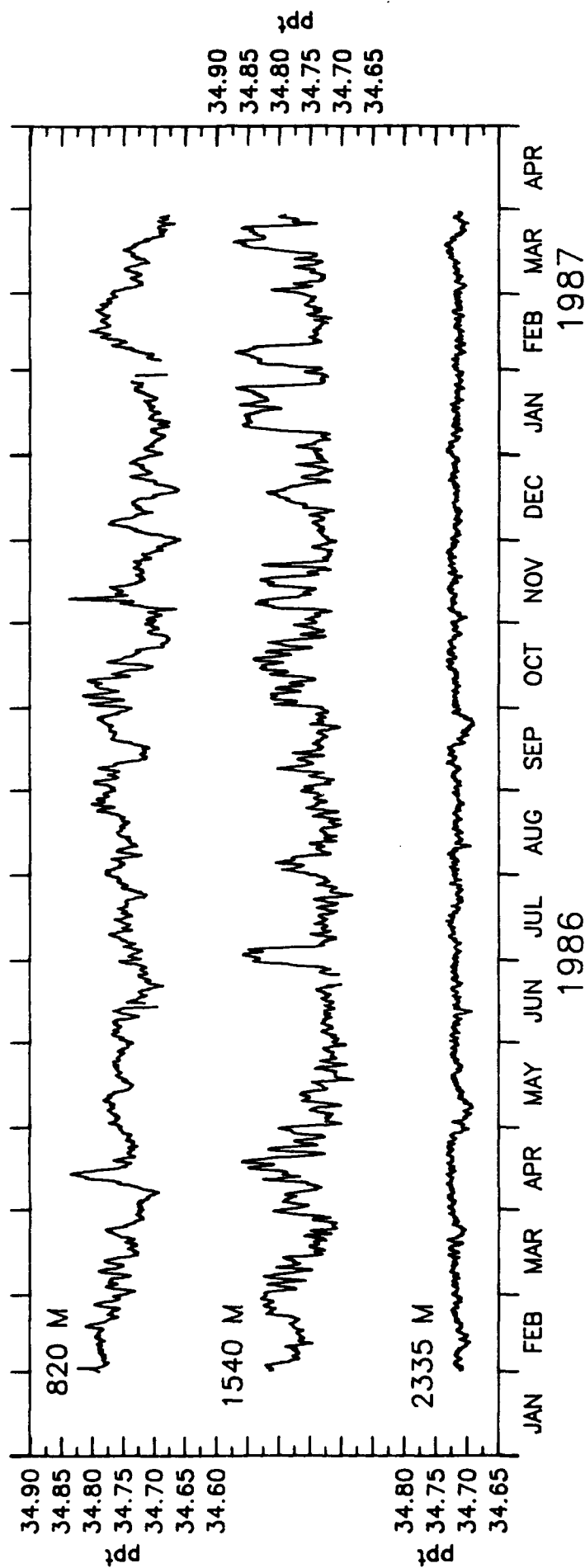
V-COMPONENT MOORING 8.



TEMPERATURE, MOORING 8.



PRESSURE, MOORING 8.



CORRECTED SALINITY AT MOORING 8.

MOORING 9

49°18.63'S, 38°00.57'W

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | | | | 1986 | | | | | | | | | | | | 1987 | | | | | | | | | | | |
| JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

1600 M

| | |
|-----|-------|
| S | ..... |
| P | ..... |
| T | ..... |
| P | ..... |
| Sol | ..... |

2355 M

| | |
|-----|-------|
| S | ..... |
| P | ..... |
| T | ..... |
| P | ..... |
| Sol | ..... |

3375 M

| | |
|---|-------|
| S | ..... |
| P | ..... |
| T | ..... |
| P | ..... |

4370 M

| | |
|---|-------|
| S | ..... |
| P | ..... |
| T | ..... |

|||||

DATA RETURN FROM MOORING 9.



MOORING 9. UNFILTERED HOURLY DATA

1600M 15 MOORING 9. 0600 31 JAN 86 - 1100 31 MAR 87. TAPE 7211/13.

| | MEAN | SD | MIN | MAX | LENGTH | ENDS AT |
|---|---------|-------|---------|---------|--------|------------------|
| S | 14.81 | 9.92 | 0.80 | 51.40 | 10182 | (1100 31 MAR 87) |
| U | 6.23 | 13.54 | -31.70 | 45.50 | 10182 | (1100 31 MAR 87) |
| V | -3.37 | 9.18 | -37.00 | 21.70 | 10182 | (1100 31 MAR 87) |
| T | 1.85 | 0.40 | 0.97 | 2.79 | 10182 | (1100 31 MAR 87) |
| P | 1660.13 | 73.35 | 1615.90 | 2099.20 | 10141 | (1100 31 MAR 87) |

2355M AT MOORING 9. 0600 31 JAN 86 - 1100 31 MAR 87. TAPE 4583/5.

| | | | | | | |
|---|---------|-------|---------|---------|-------|------------------|
| S | 11.02 | 7.08 | 0.80 | 41.90 | 10182 | (1100 31 MAR 87) |
| U | 4.09 | 10.39 | -26.50 | 38.70 | 10182 | (1100 31 MAR 87) |
| V | -2.06 | 6.54 | -26.00 | 34.30 | 10182 | (1100 31 MAR 87) |
| T | 1.08 | 0.29 | 0.35 | 2.02 | 10182 | (1100 31 MAR 87) |
| P | 2431.76 | 71.04 | 2387.10 | 2894.40 | 10182 | (1100 31 MAR 87) |

3375M AT MOORING 9. 0600 31 JAN 86 - 0700 24 MAR 87. TAPE 2268/36.

| | | | | | | |
|---|---------|-------|---------|---------|-------|------------------|
| S | 9.63 | 7.08 | 0.80 | 40.10 | 10010 | (0700 24 MAR 87) |
| U | 3.44 | 9.72 | -31.30 | 40.10 | 10010 | (0700 24 MAR 87) |
| V | -1.29 | 5.91 | -25.70 | 31.30 | 10010 | (0700 24 MAR 87) |
| T | 0.32 | 0.14 | 0.02 | 0.74 | 10010 | (0700 24 MAR 87) |
| P | 3459.13 | 40.97 | 3417.00 | 3742.00 | 10010 | (0700 24 MAR 87) |

4370M AT MOORING 9. 0600 31 JAN 86 - 1100 31 MAR 87. TAPE 6088/13.

| | | | | | | |
|---|-------|-------|--------|-------|-------|------------------|
| S | 19.17 | 16.67 | 0.80 | 73.00 | 10182 | (1100 31 MAR 87) |
| U | 14.18 | 15.41 | -27.40 | 63.00 | 10182 | (1100 31 MAR 87) |
| V | -2.71 | 14.11 | -71.20 | 24.40 | 10182 | (1100 31 MAR 87) |
| T | 0.01 | 0.12 | -0.20 | 0.26 | 10182 | (1100 31 MAR 87) |

(1600 M) PRESSURE OFFSCALE, GAPS IN RECORD, LINES:

9244-9253 (0900 20 FEB 87 - 1800 20 FEB 87)
 9260-9269 (0100 21 FEB 87 - 1000 21 FEB 87)
 9273-9283 (1400 21 FEB 87 - 0000 22 FEB 87)
 9290-9299 (0700 22 FEB 87 - 1600 22 FEB 87)

(3375 M) DATA A FEW LINES SHORT DUE TO CLOCK MALFUNCTION.

(Speed, u, and v are given in cm/sec, Temperature in °C, Pressure in DB).

MOORING 9. LLP FILTERED 6-HOURLY DATA

1600M AT MOORING 9. 0600 1 FEB 86 - 0600 30 MAR 87. TAPE 7211/13.

| | MEAN | SD | MIN | MAX | LENGTH | ENDS AT |
|---|---------|-------|---------|---------|--------|------------------|
| U | 6.23 | 13.37 | -27.88 | 38.98 | 1689 | (0600 30 MAR 87) |
| V | -3.37 | 8.89 | -33.49 | 17.09 | 1689 | (0600 30 MAR 87) |
| T | 1.85 | 0.39 | 1.02 | 2.67 | 1689 | (0600 30 MAR 87) |
| P | 1658.11 | 67.86 | 1618.06 | 1995.39 | 1672 | (0600 30 MAR 87) |
| S | 34.75 | 2.24 | 34.67 | 34.83 | 1253 | (0600 30 MAR 87) |

2355M AT MOORING 9. 0600 1 FEB 86 - 0600 30 MAR 87. TAPE 4583/5.

| | | | | | | |
|---|---------|-------|---------|---------|------|------------------|
| U | 4.08 | 10.20 | -23.26 | 33.59 | 1689 | (0600 30 MAR 87) |
| V | -2.06 | 6.18 | -20.12 | 26.39 | 1689 | (0600 30 MAR 87) |
| T | 1.07 | 0.28 | 0.41 | 1.74 | 1689 | (0600 30 MAR 87) |
| P | 2431.85 | 70.70 | 2389.78 | 2863.33 | 1689 | (0600 30 MAR 87) |
| S | 34.72 | 2.42 | 34.67 | 34.78 | 1651 | (0600 30 MAR 87) |

3375M AT MOORING 9. 0600 1 FEB 86 - 0600 23 MAR 87. TAPE 2268/36.

| | | | | | | |
|---|---------|-------|---------|---------|------|------------------|
| U | 3.49 | 9.49 | -29.88 | 35.56 | 1661 | (0600 23 MAR 87) |
| V | -1.31 | 5.50 | -20.38 | 27.97 | 1661 | (0600 23 MAR 87) |
| T | 0.32 | 0.14 | 0.03 | 0.70 | 1661 | (0600 23 MAR 87) |
| P | 3459.24 | 40.81 | 3428.82 | 3725.24 | 1661 | (0600 23 MAR 87) |

4370M AT MOORING 9. 0600 1 FEB 86 - 0600 30 MAR 87. TAPE 6083/13.

| | | | | | | |
|---|-------|-------|--------|-------|------|------------------|
| U | 14.22 | 15.04 | -15.84 | 59.30 | 1689 | (0600 30 MAR 87) |
| V | -2.73 | 13.57 | -67.63 | 20.97 | 1689 | (0600 30 MAR 87) |
| T | 0.01 | 0.12 | -0.21 | 0.25 | 1689 | (0600 30 MAR 87) |

(1600 M) PRESSURE OFFSCALE, GAPS IN UNFILTERED FILE, LLP

GAPS LINES:

1534 - 1550 (1200 19 FEB 87 - 1200 23 FEB 87)

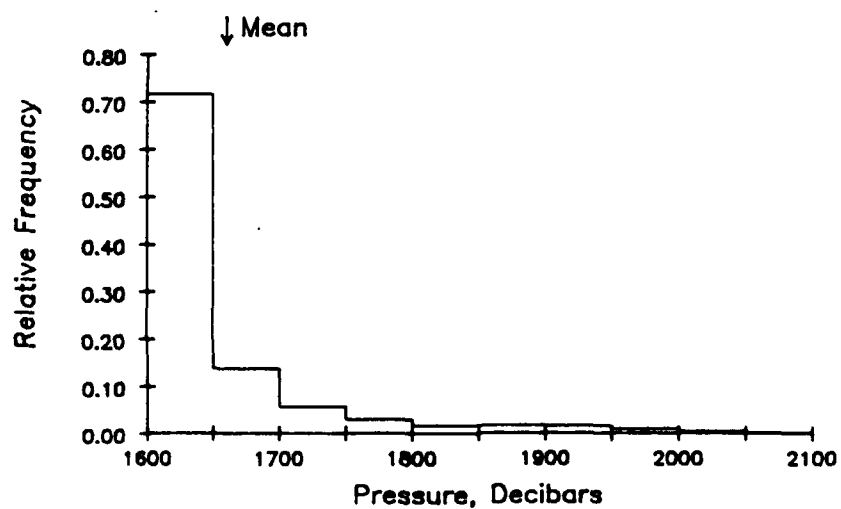
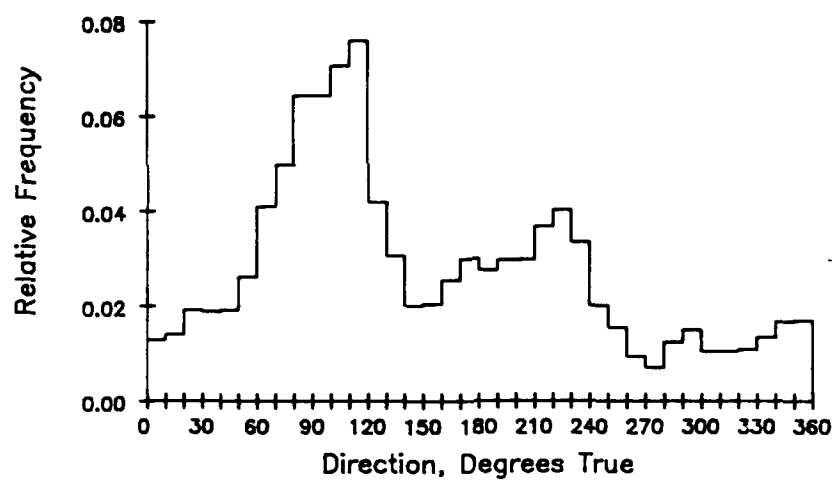
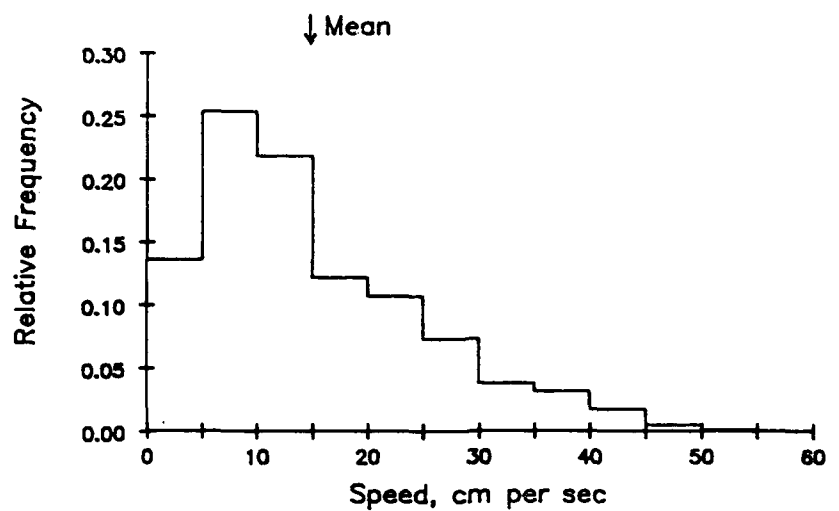
GAPS IN SALINITY RECORD, OFFSCALE DATA POINTS REMOVED

(2355 M) GAPS IN SALINITY RECORD, OFFSCALE DATA POINTS REMOVED

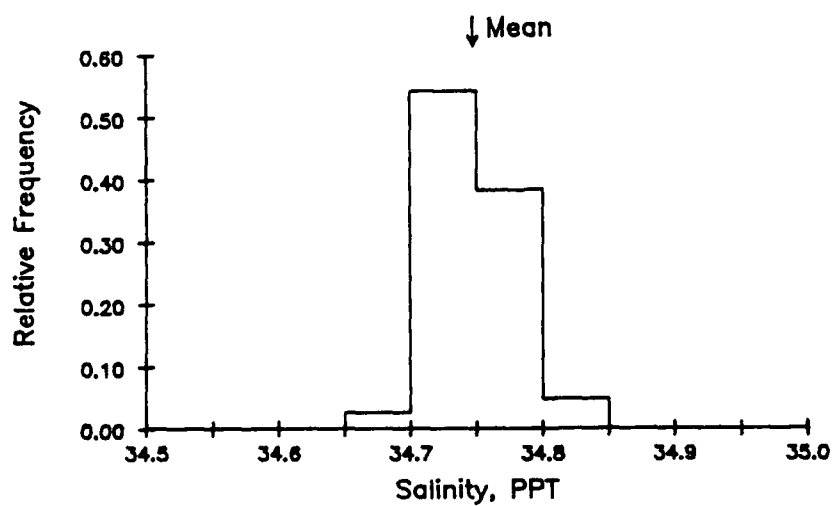
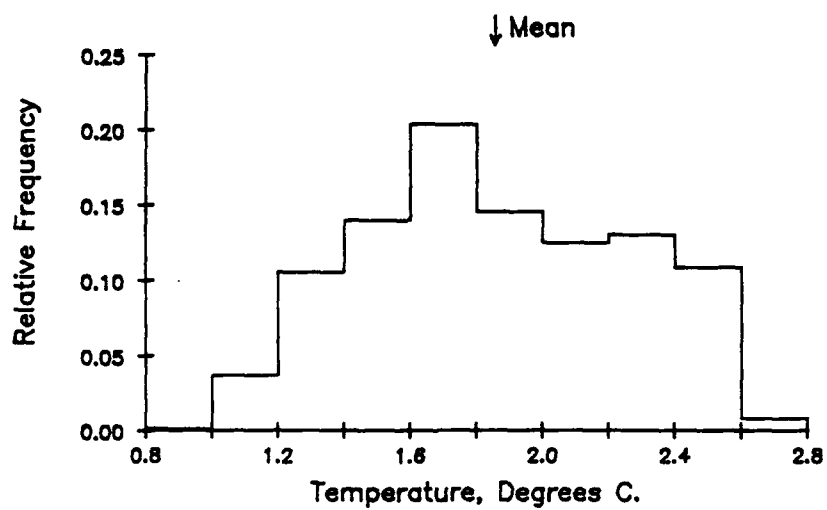
(3375 M) DATA A FEW LINES SHORT DUE TO CLOCK MALFUNCTION.

(Speed, u, and v are given in cm/sec, Temperature in °C, Pressure in DB, and Corrected Salinity in ppt.)

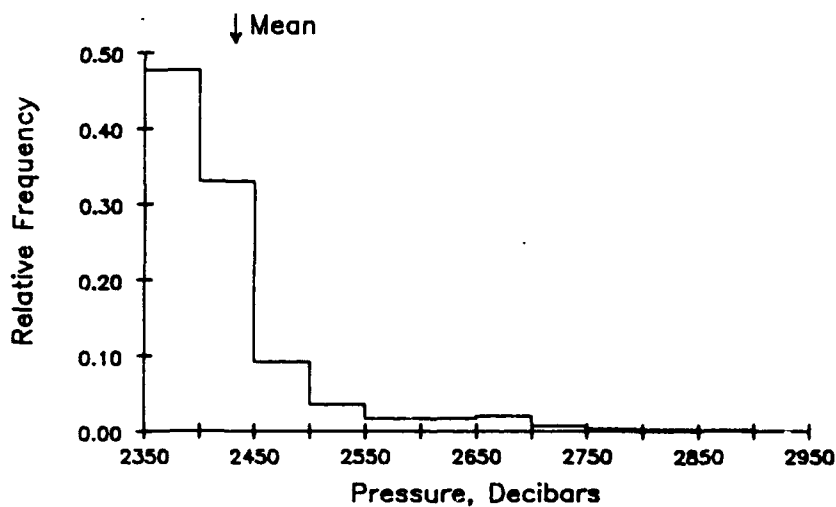
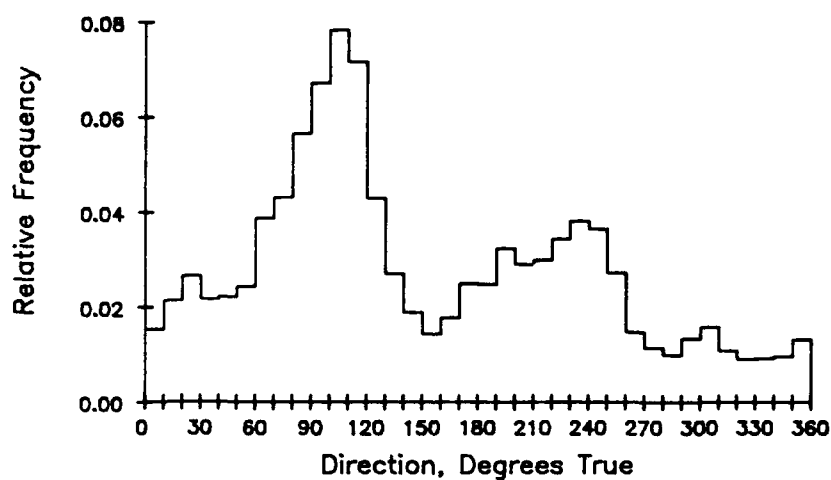
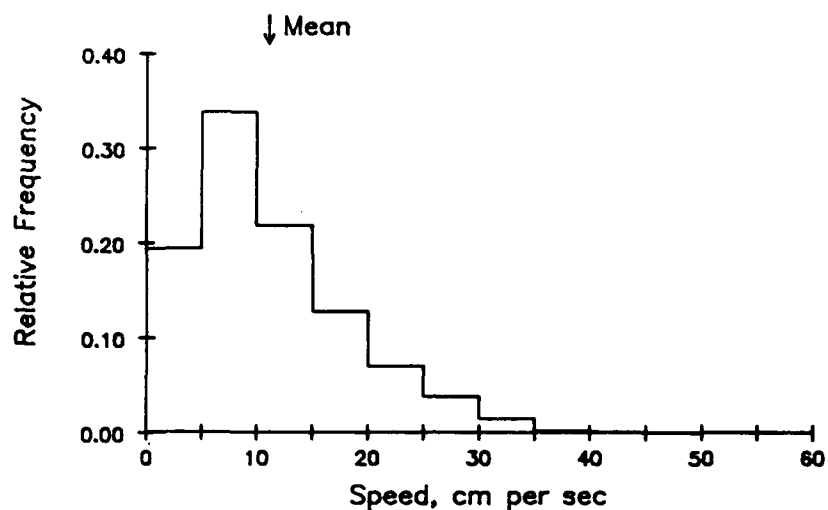
1600 METERS AT MOORING 9. TAPE 7211/13.



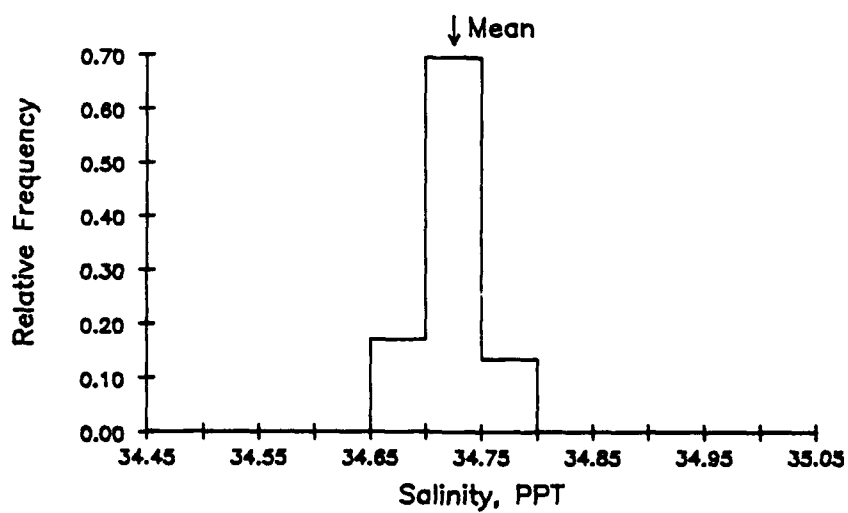
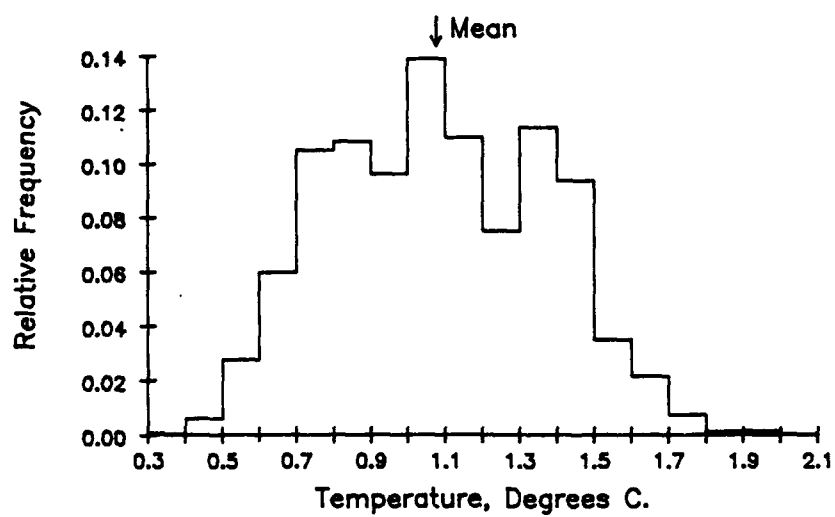
1600 METERS AT MOORING 9. TAPE 7211/13.



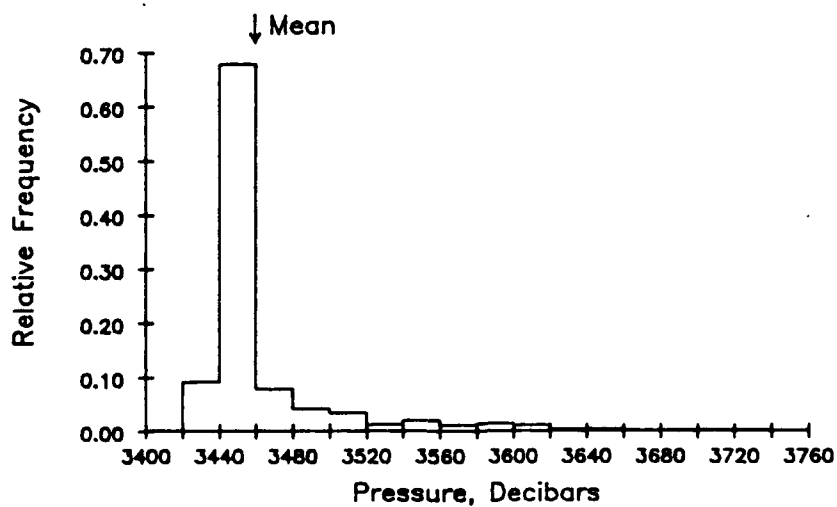
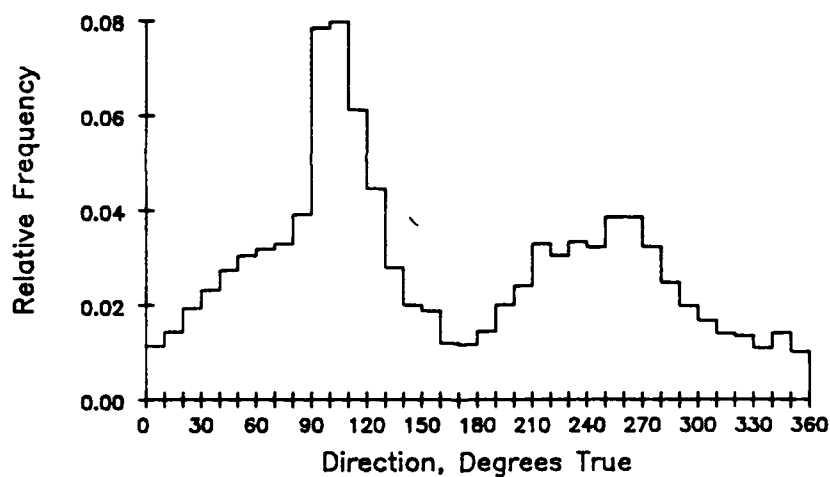
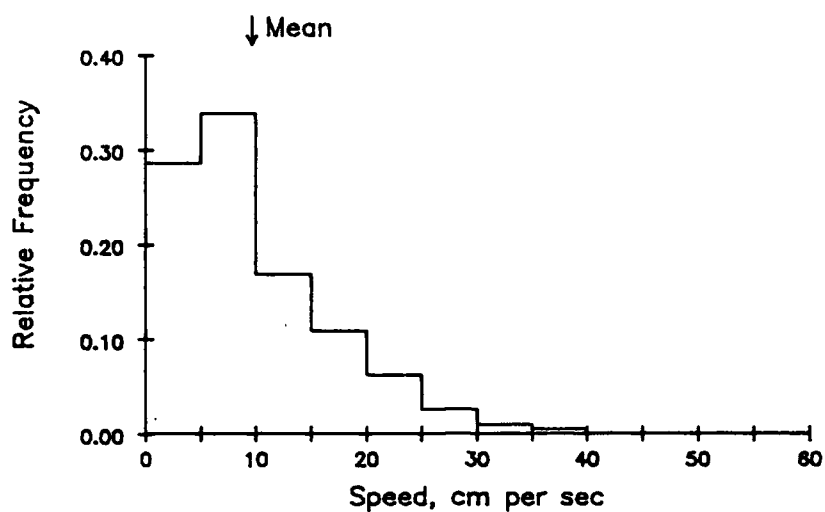
2355 METERS AT MOORING 9. TAPE 4583/5.



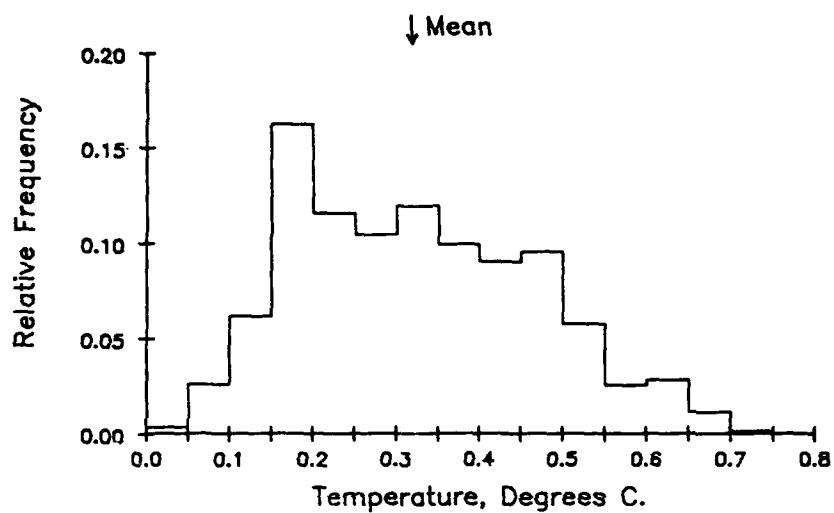
2355 METERS AT MOORING 9. TAPE 4583/5.



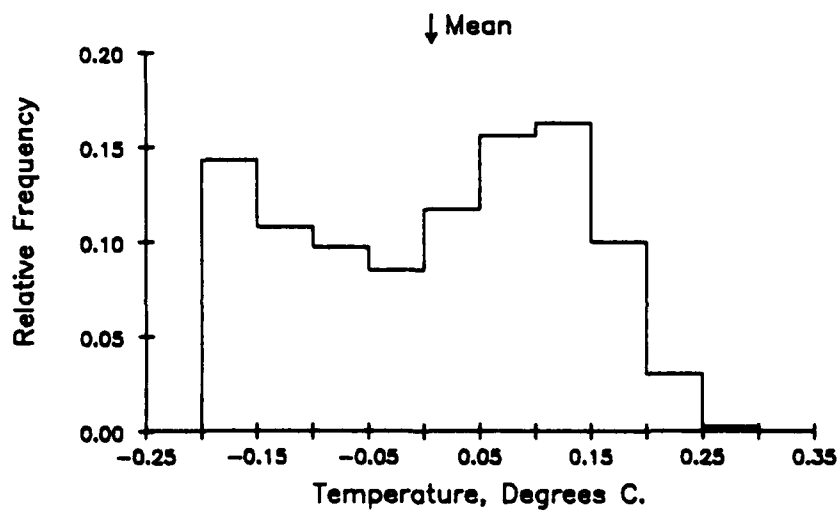
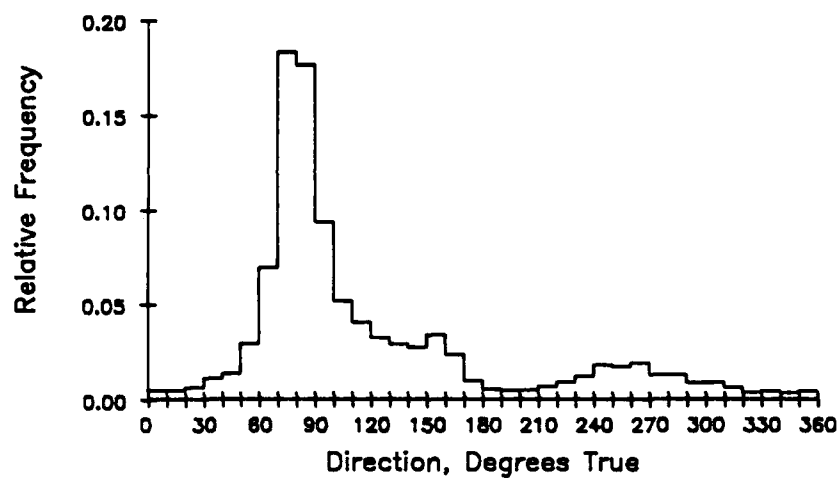
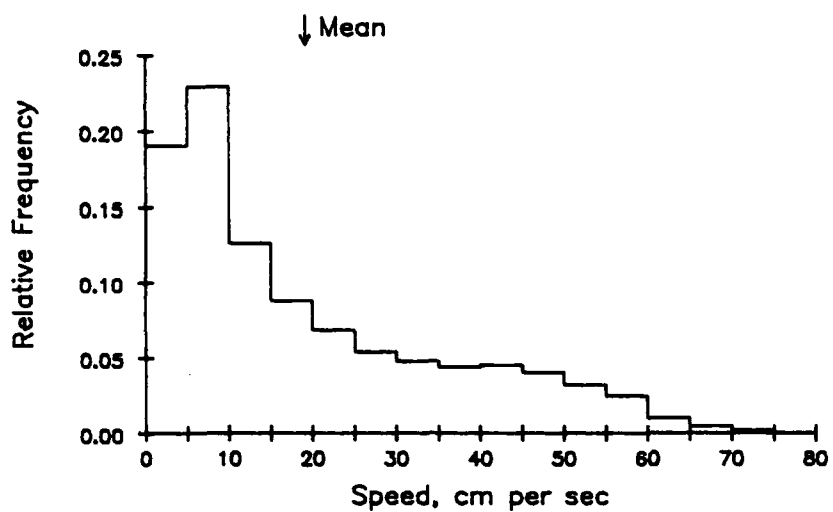
3375 METERS AT MOORING 9. TAPE 2268/36.



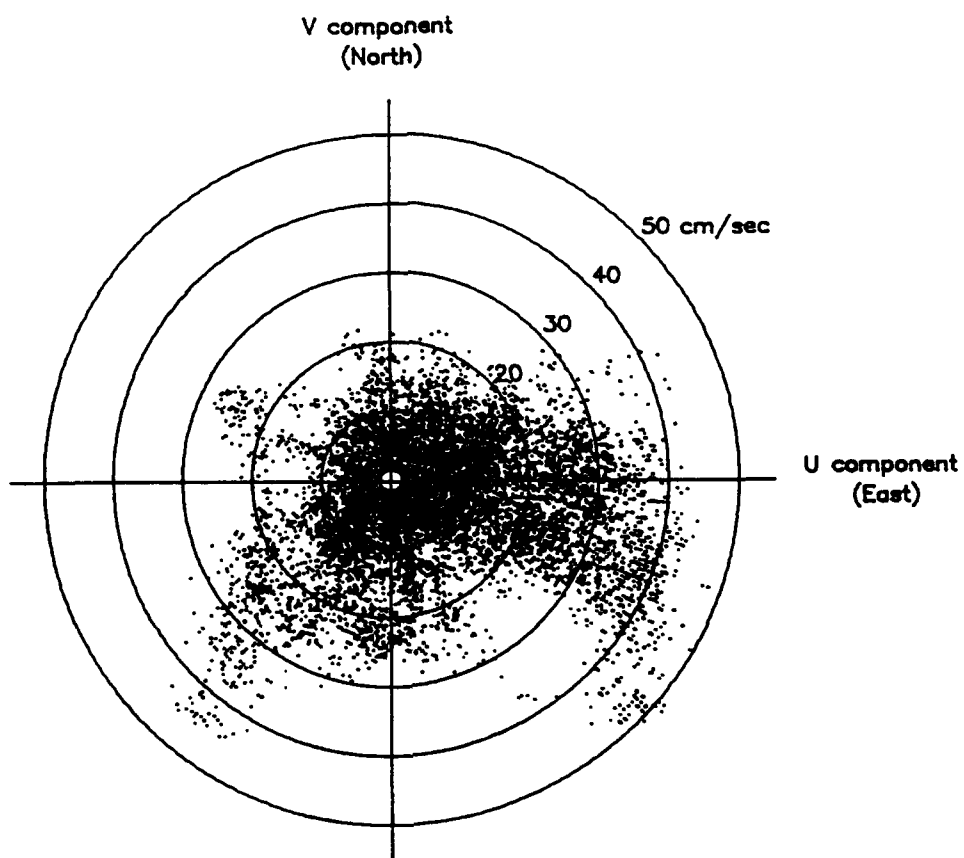
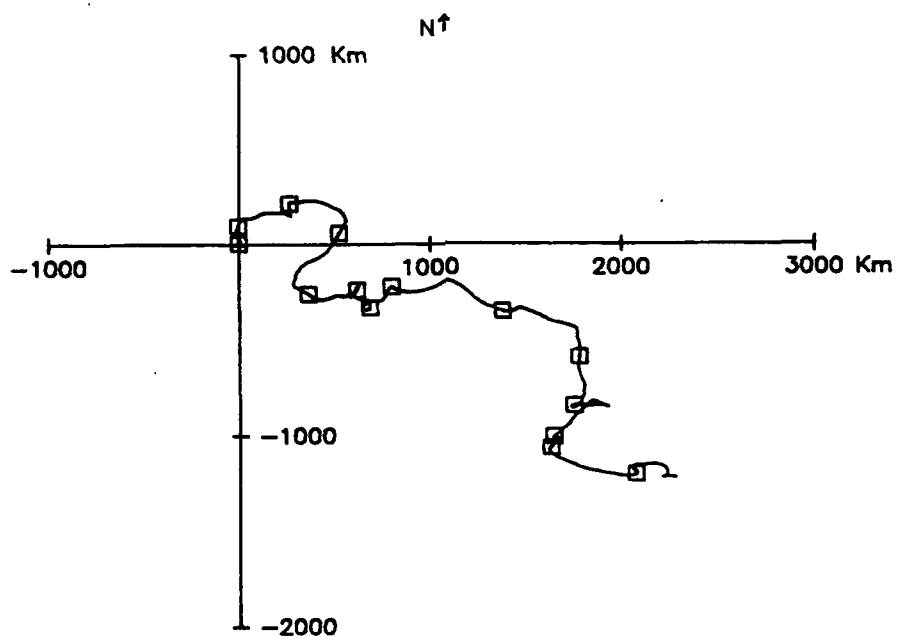
3375 METERS AT MOORING 9. TAPE 2268/36.



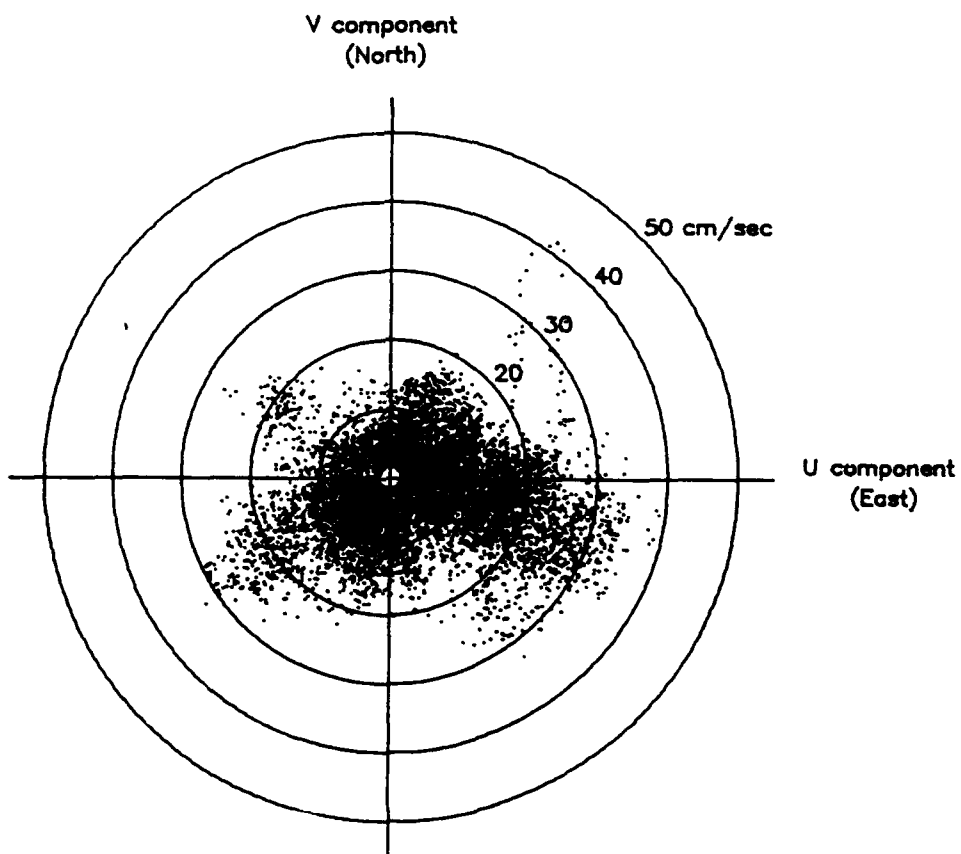
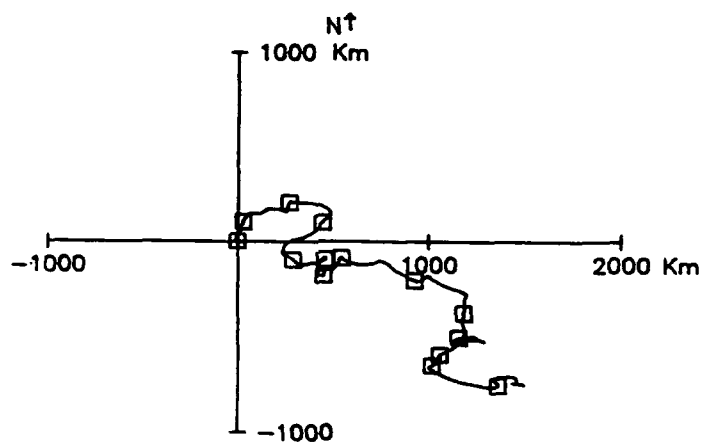
4370 METERS AT MOORING 9. TAPE 6088/13.



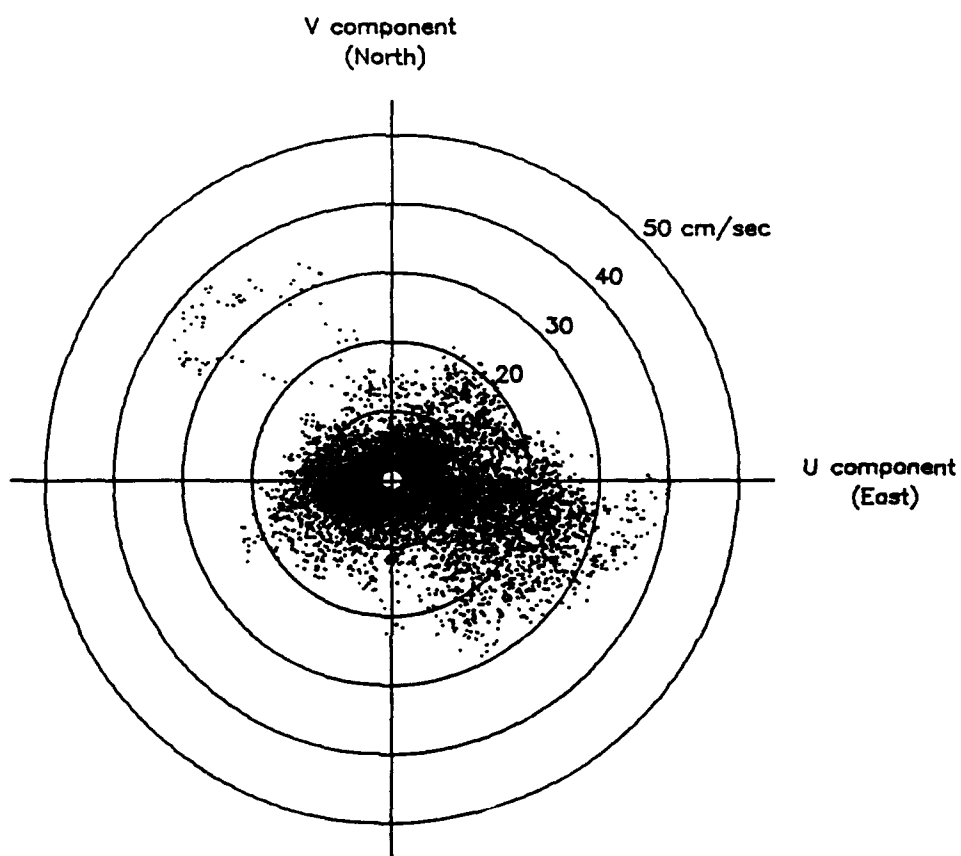
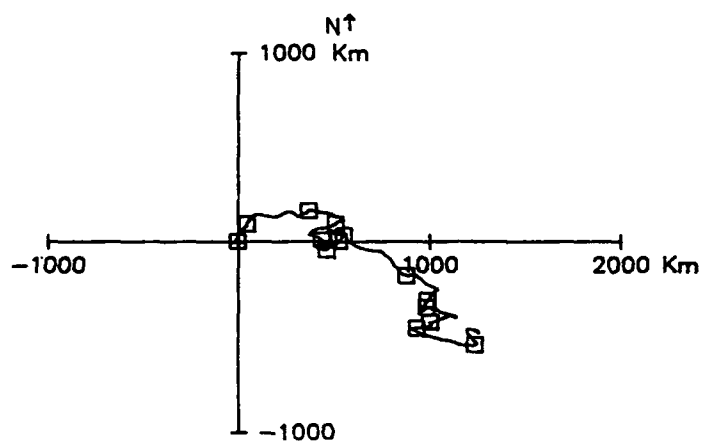
1600M AT MOORING 9. 31 JAN 86 - 31 MAR 87. TAPE 7211/13.



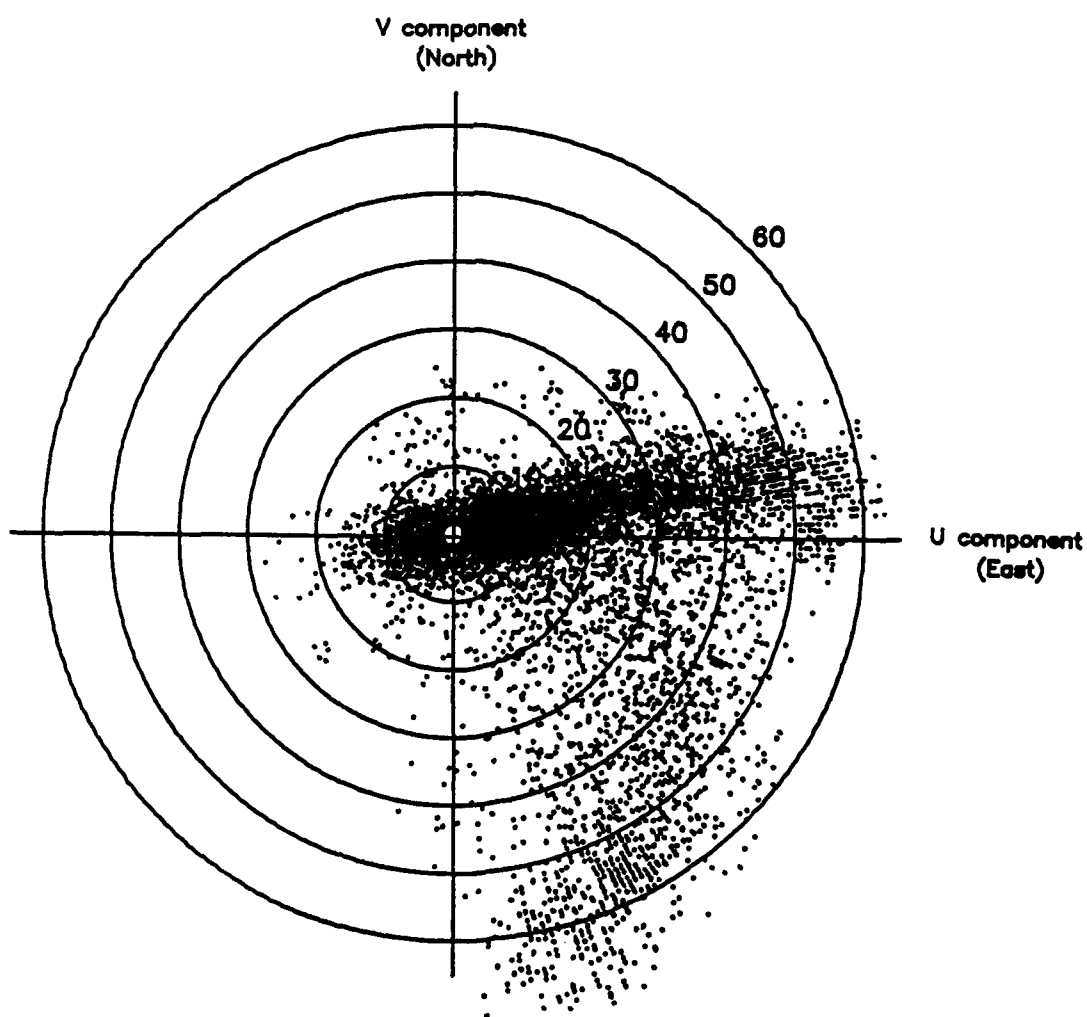
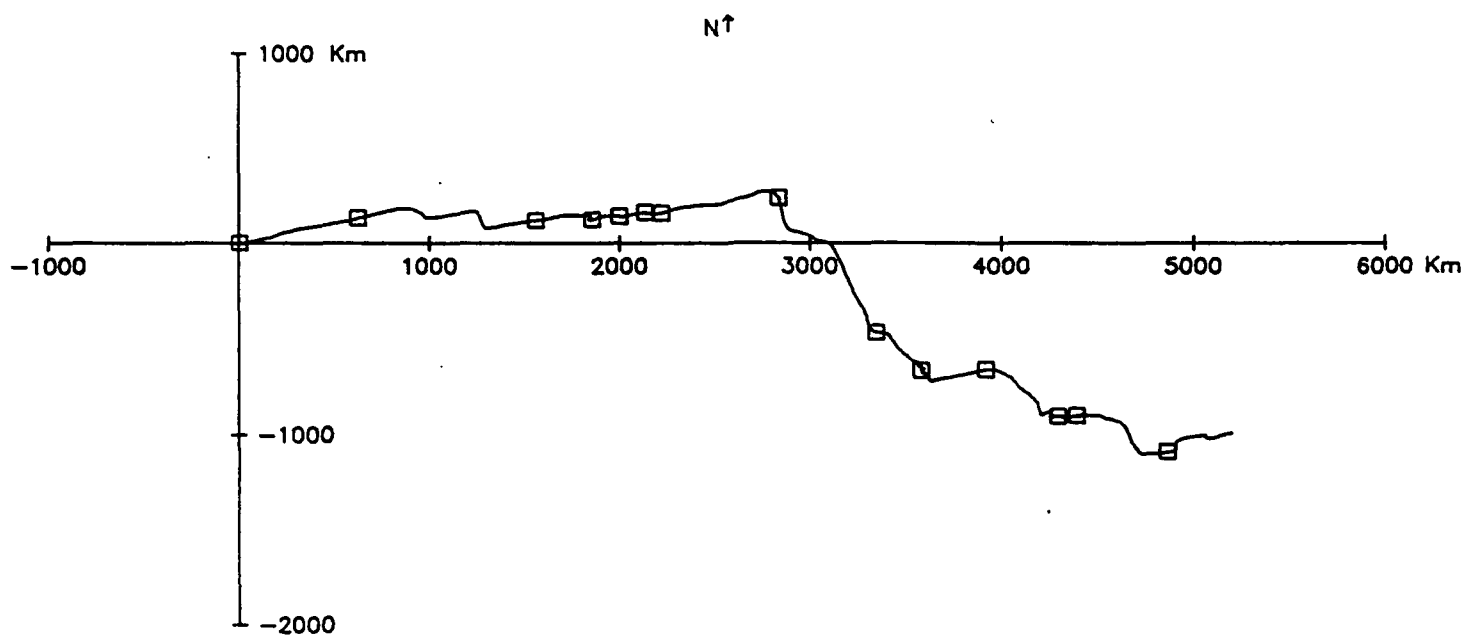
2355M AT MOORING 9. 31 JAN 86 - 31 MAR 87. TAPE 4583/5.



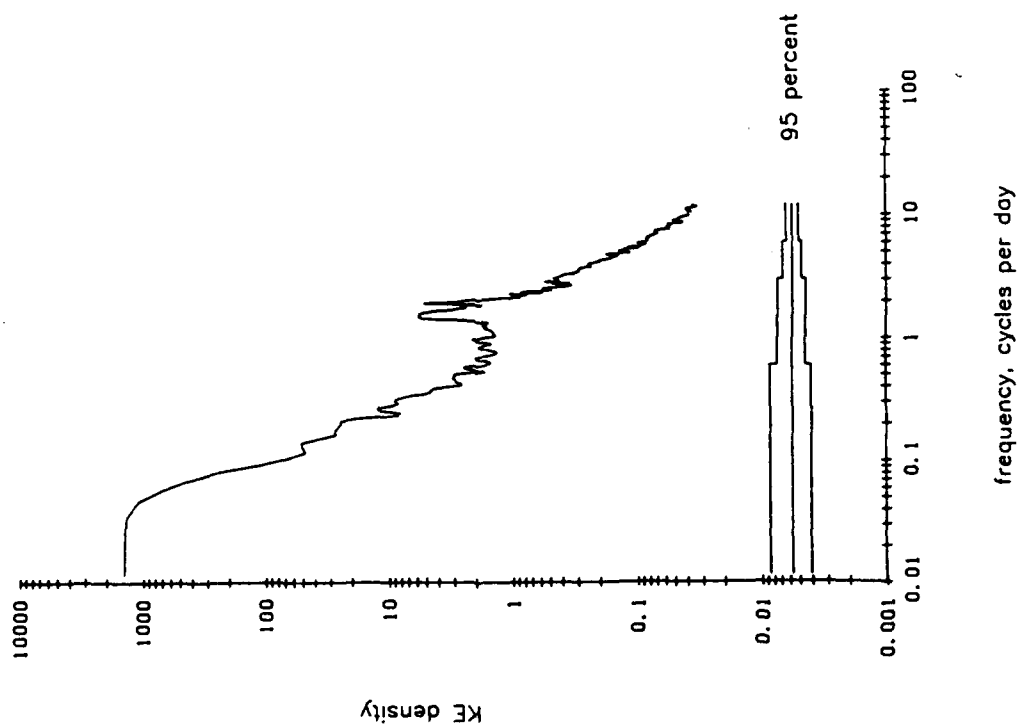
3375M AT MOORING 9. 31 JAN 86 - 24 MAR 87. TAPE 2268/36.



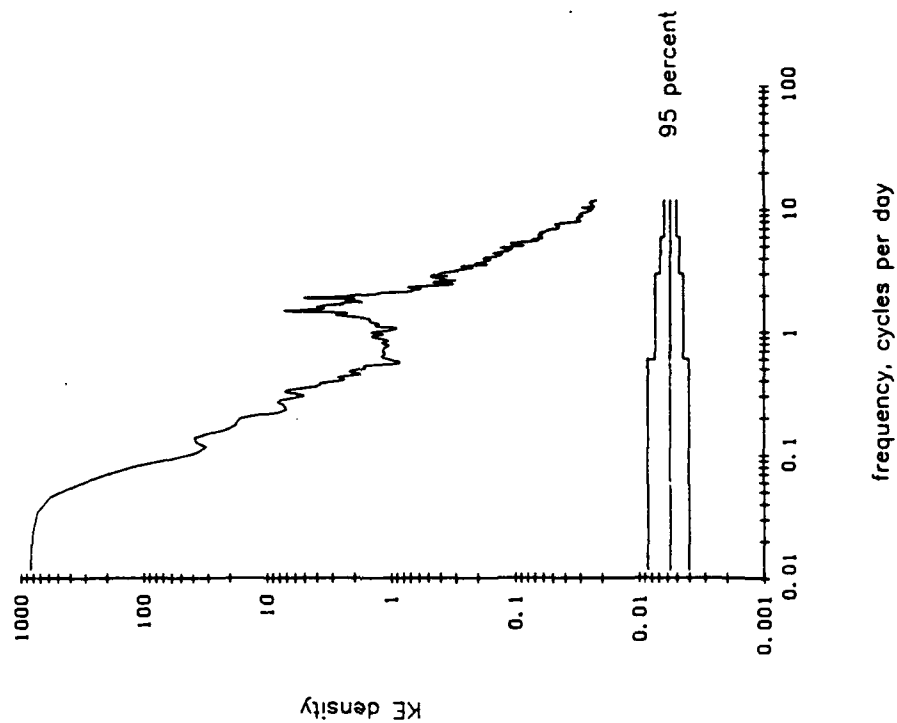
4370M AT MOORING 9. 31 JAN 86 - 31 MAR 87. TAPE 6088/13.



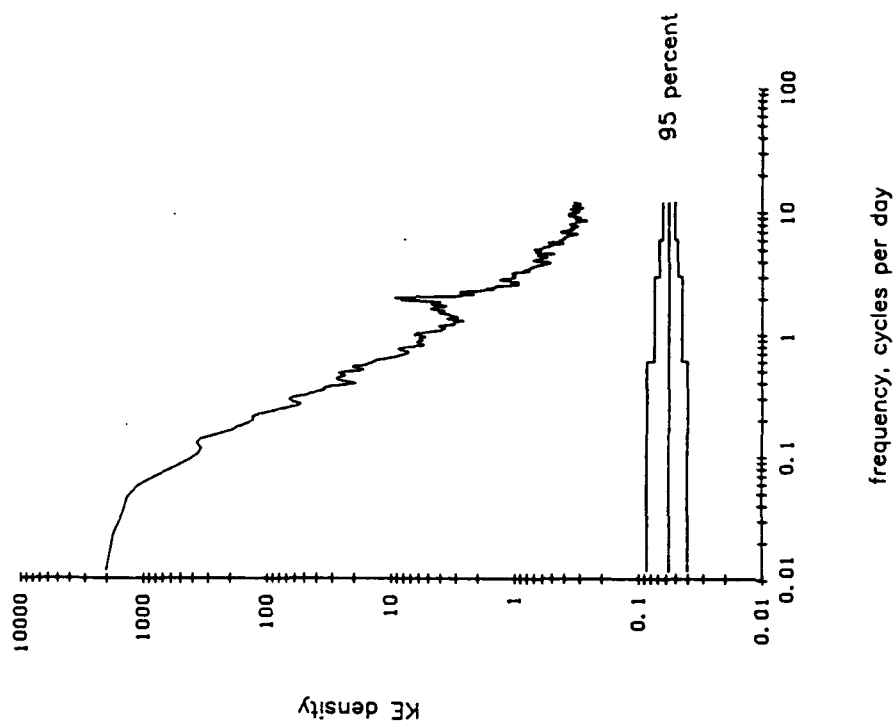
Unfiltered current. 1600 m at Mooring 9.
Both components



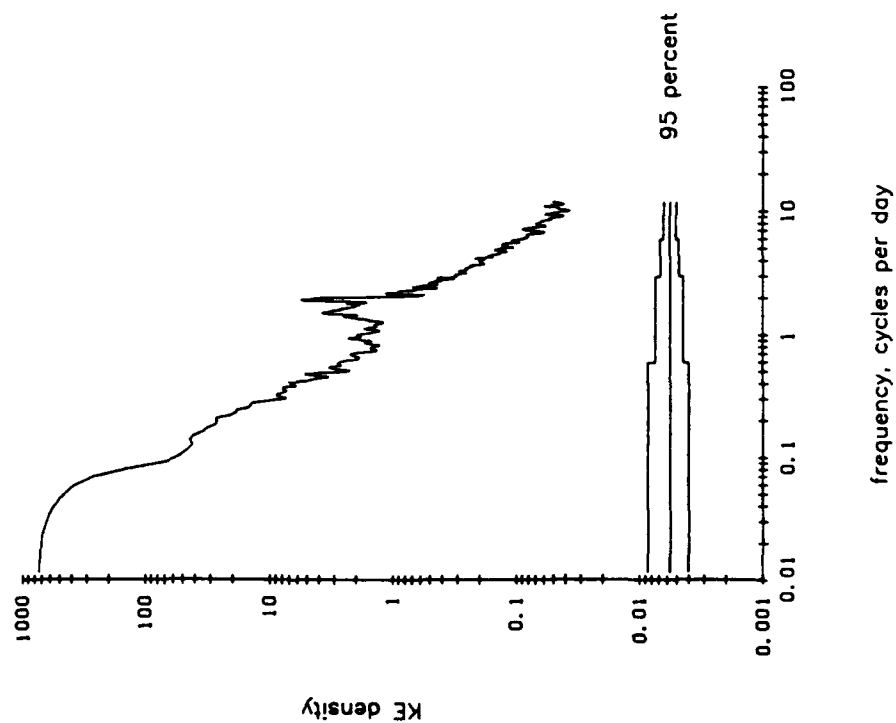
Unfiltered current. 2355 m at Mooring 9.
Both components



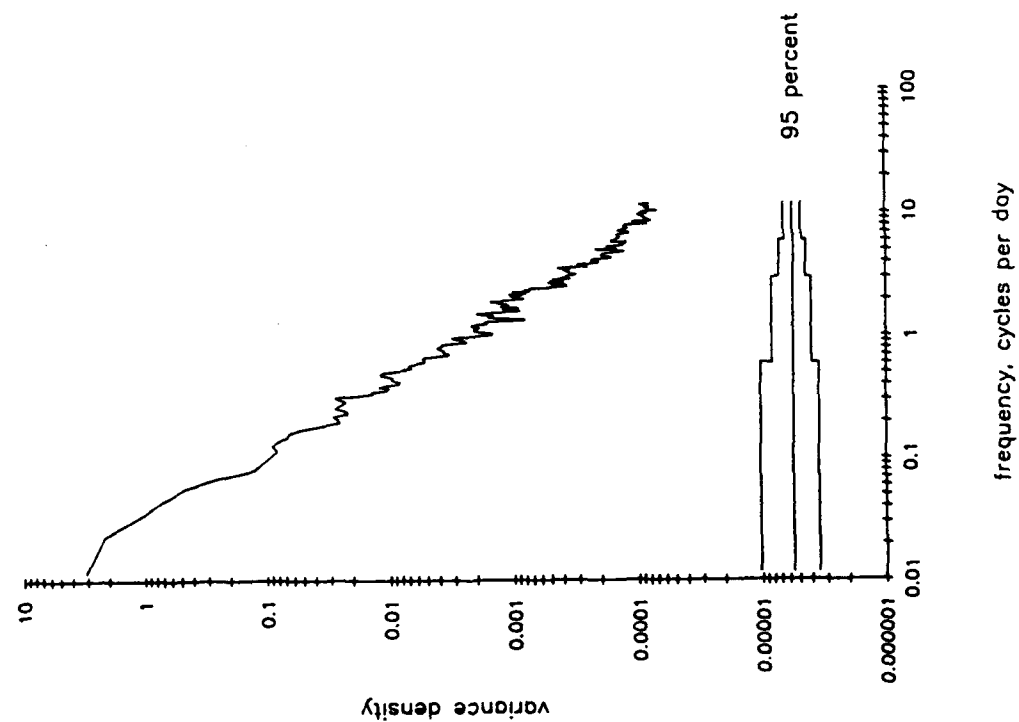
Unfiltered current. 4370 m at Mooring 9.
Both components



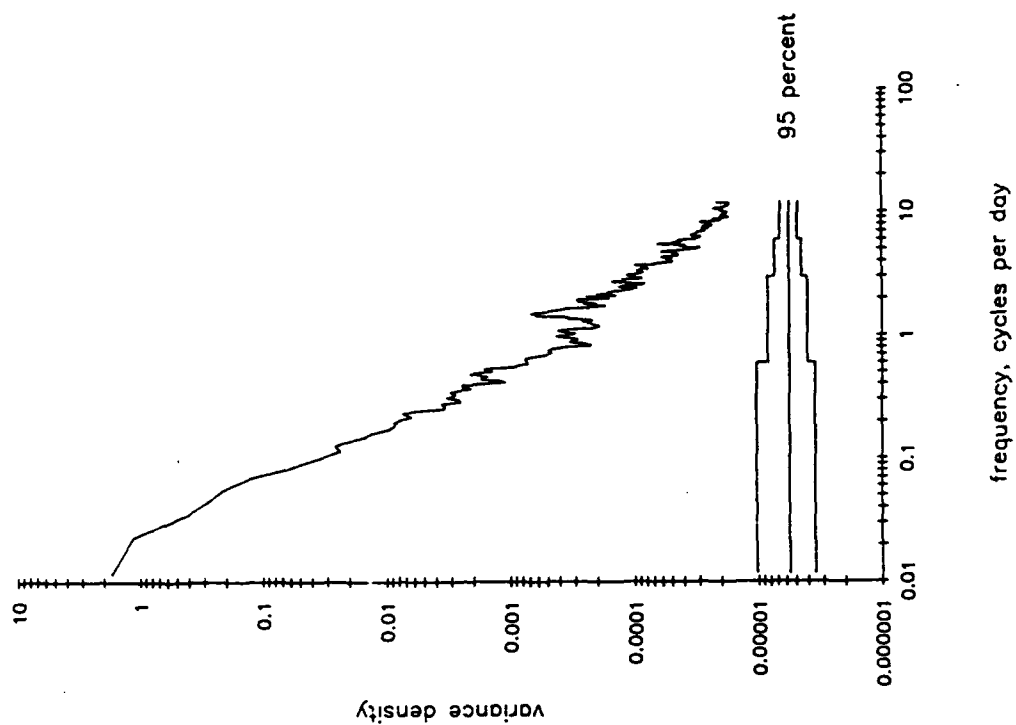
Unfiltered current. 3375 m at Mooring 9.
Both components



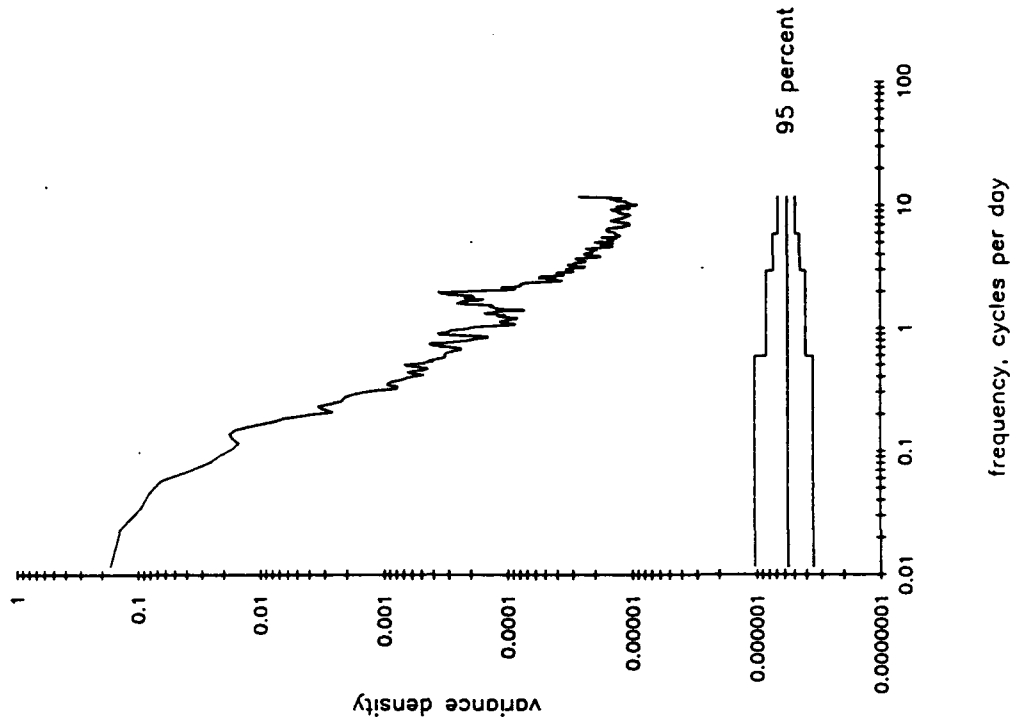
Unfiltered temperature. 1600 m at Mooring 9.



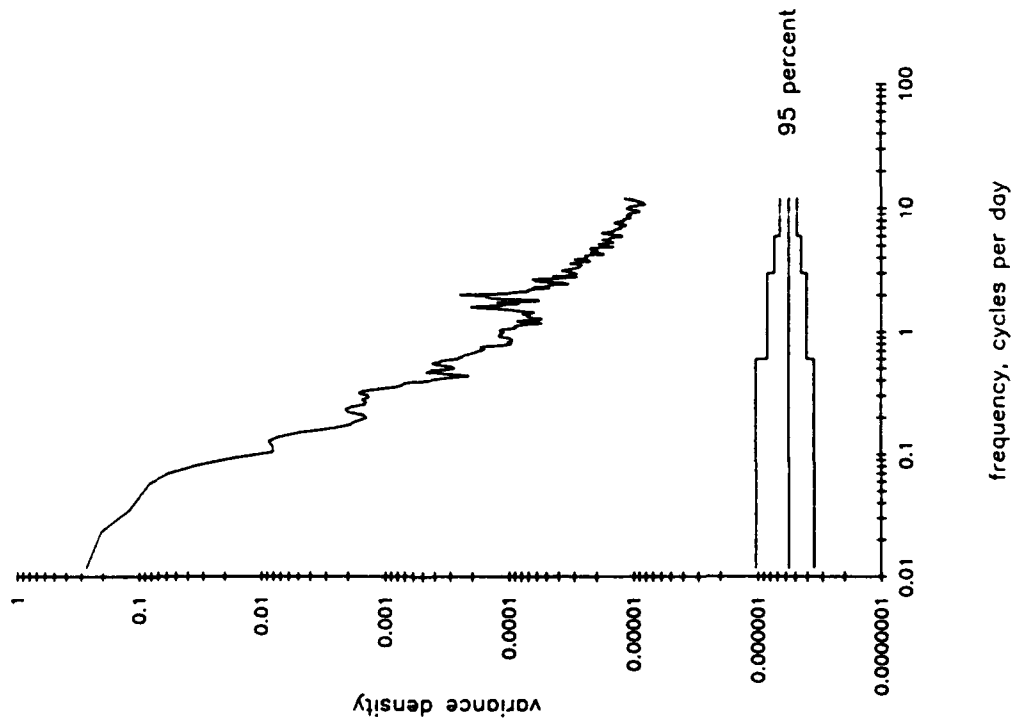
Unfiltered temperature. 2355 m at Mooring 9.

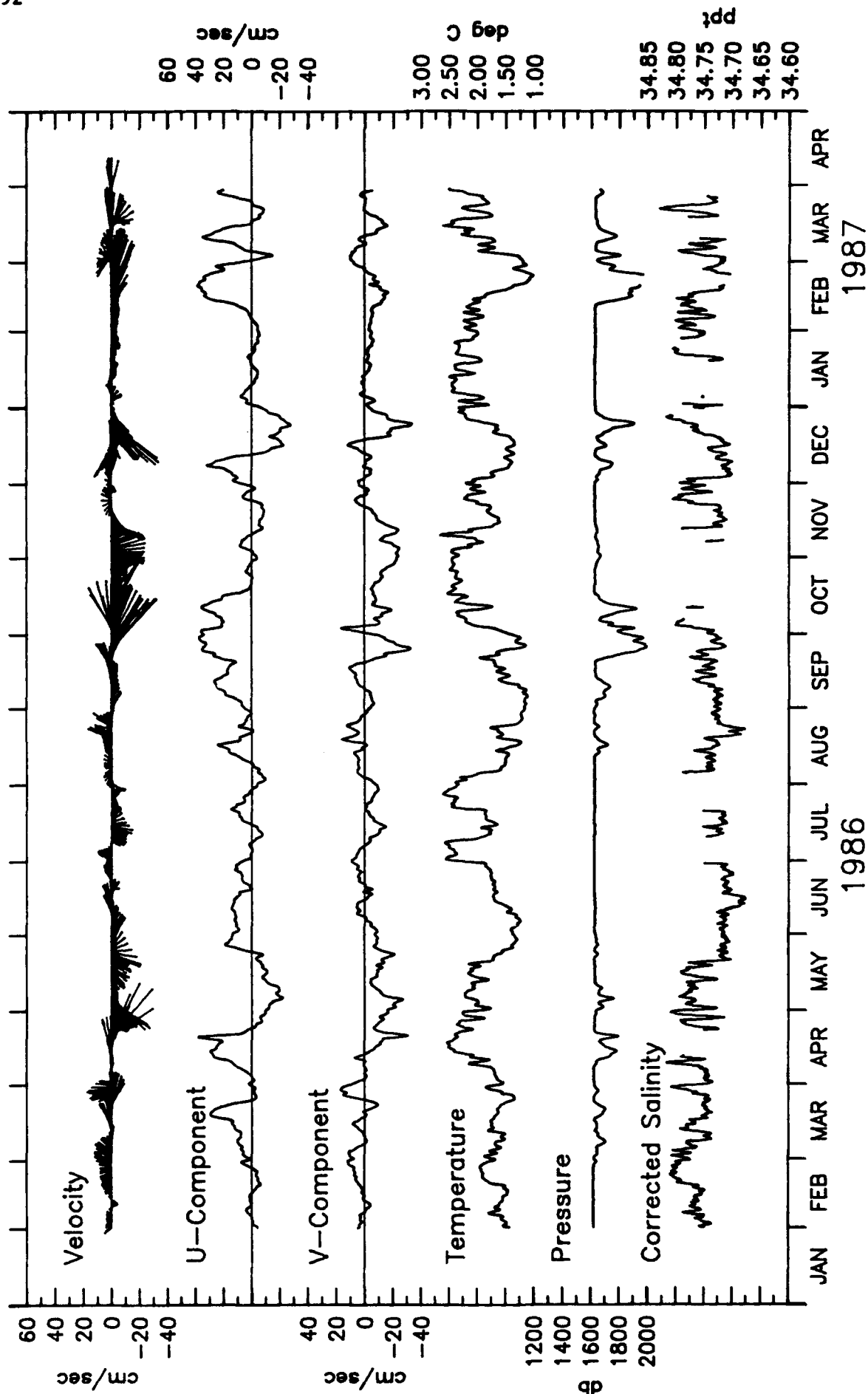


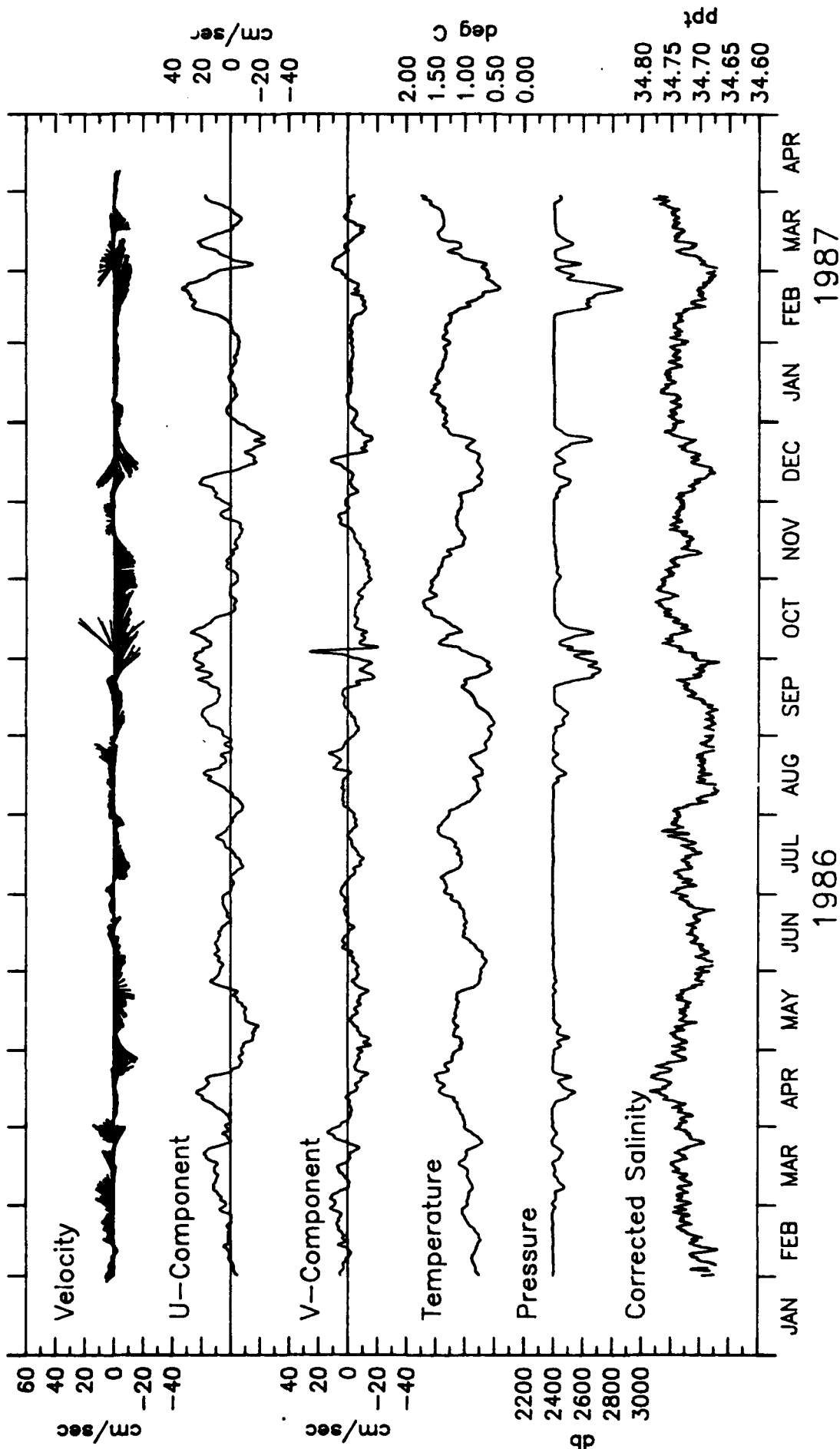
Unfiltered temperature. 4370 m at Mooring 9.



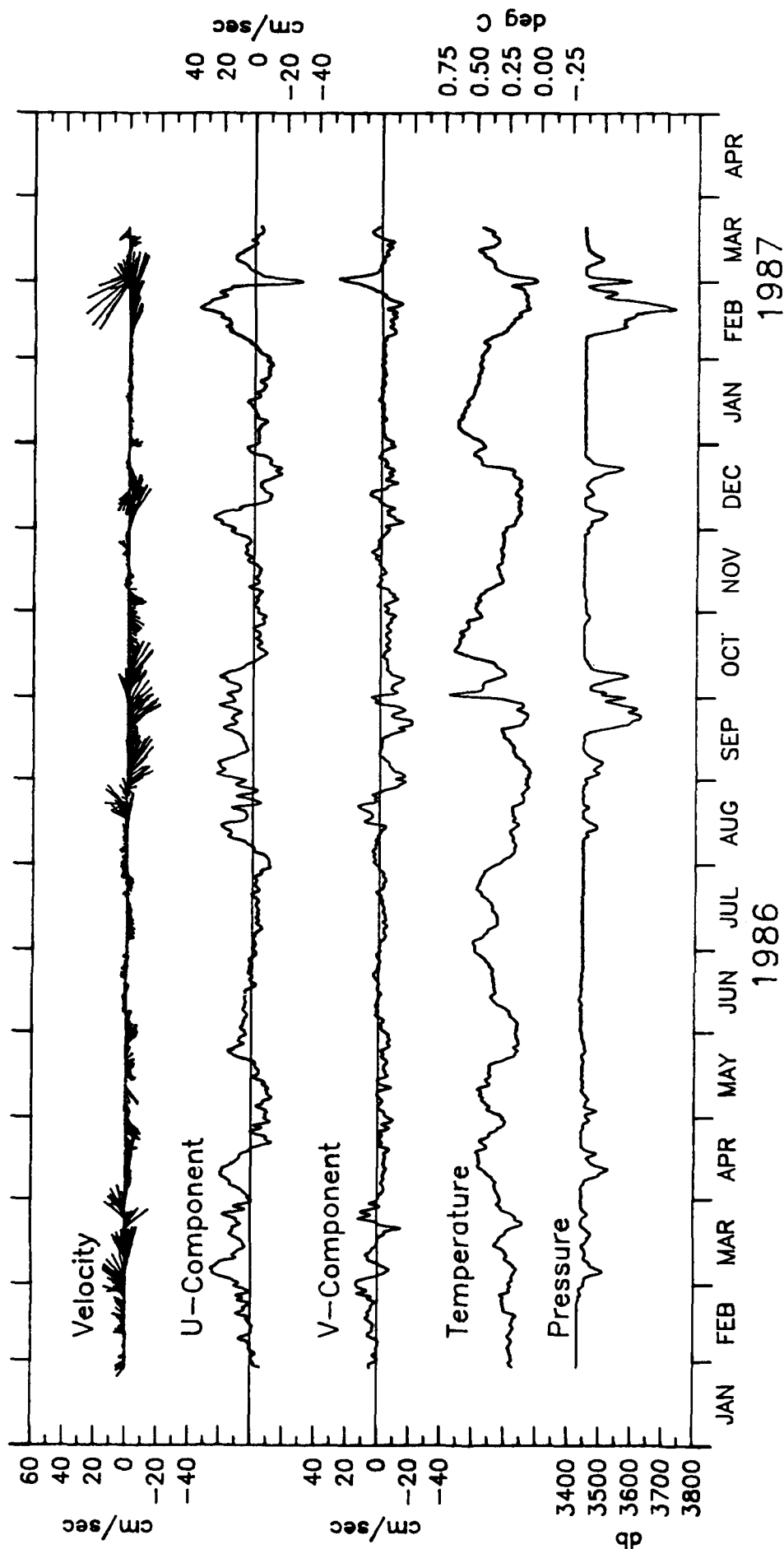
Unfiltered temperature. 3375 m at Mooring 9.



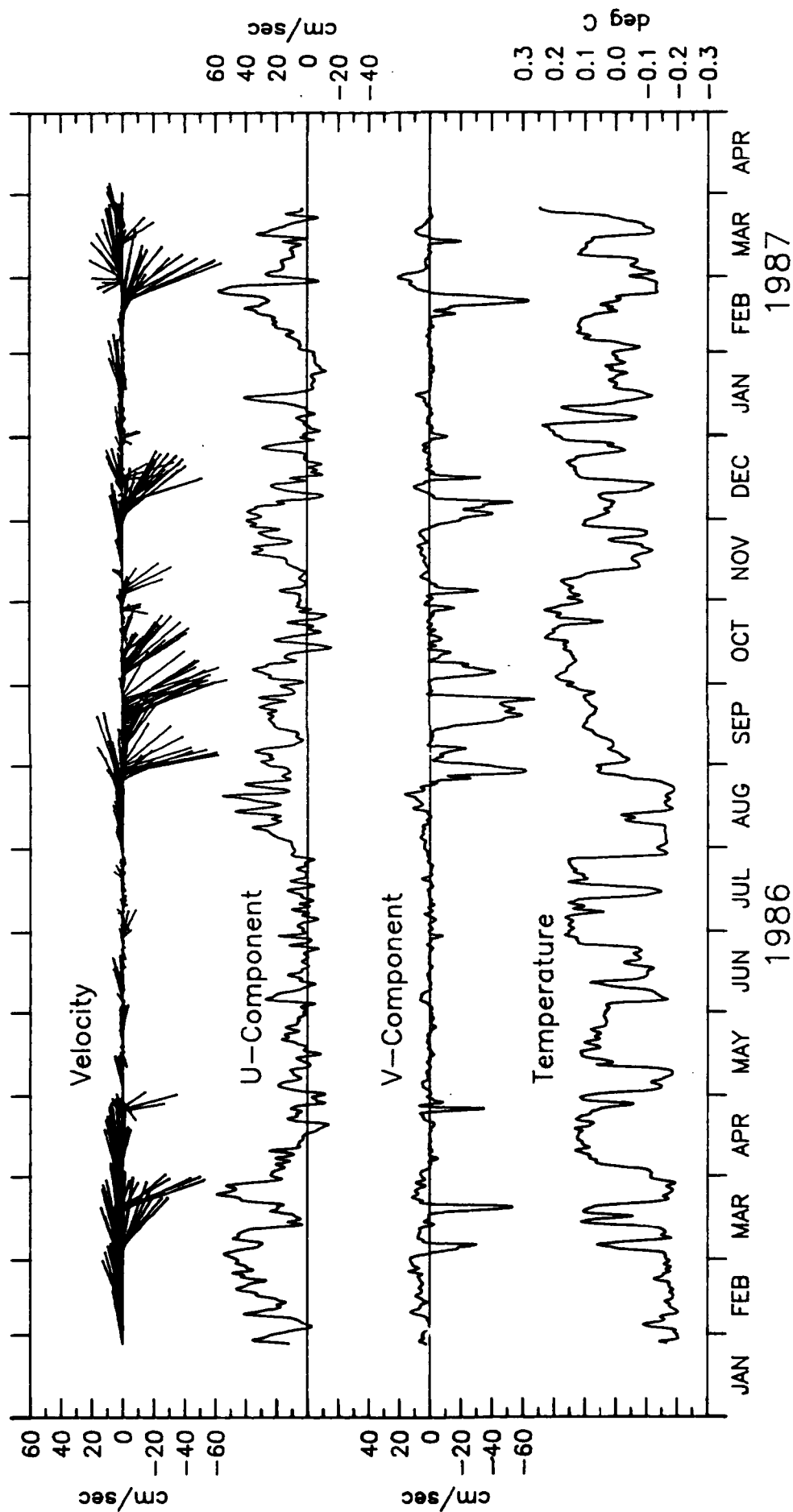




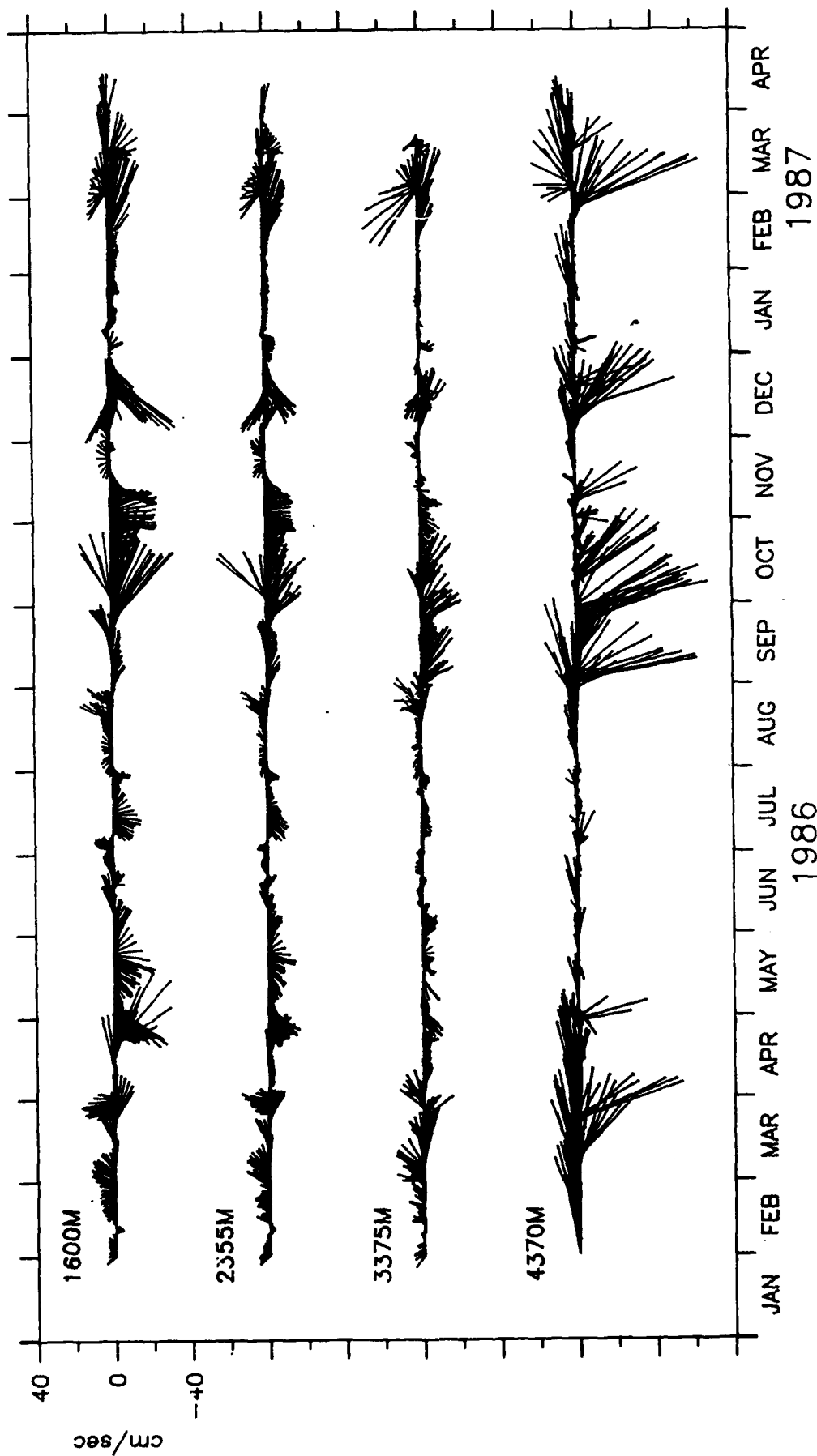
2355 M AT MOORING 9.



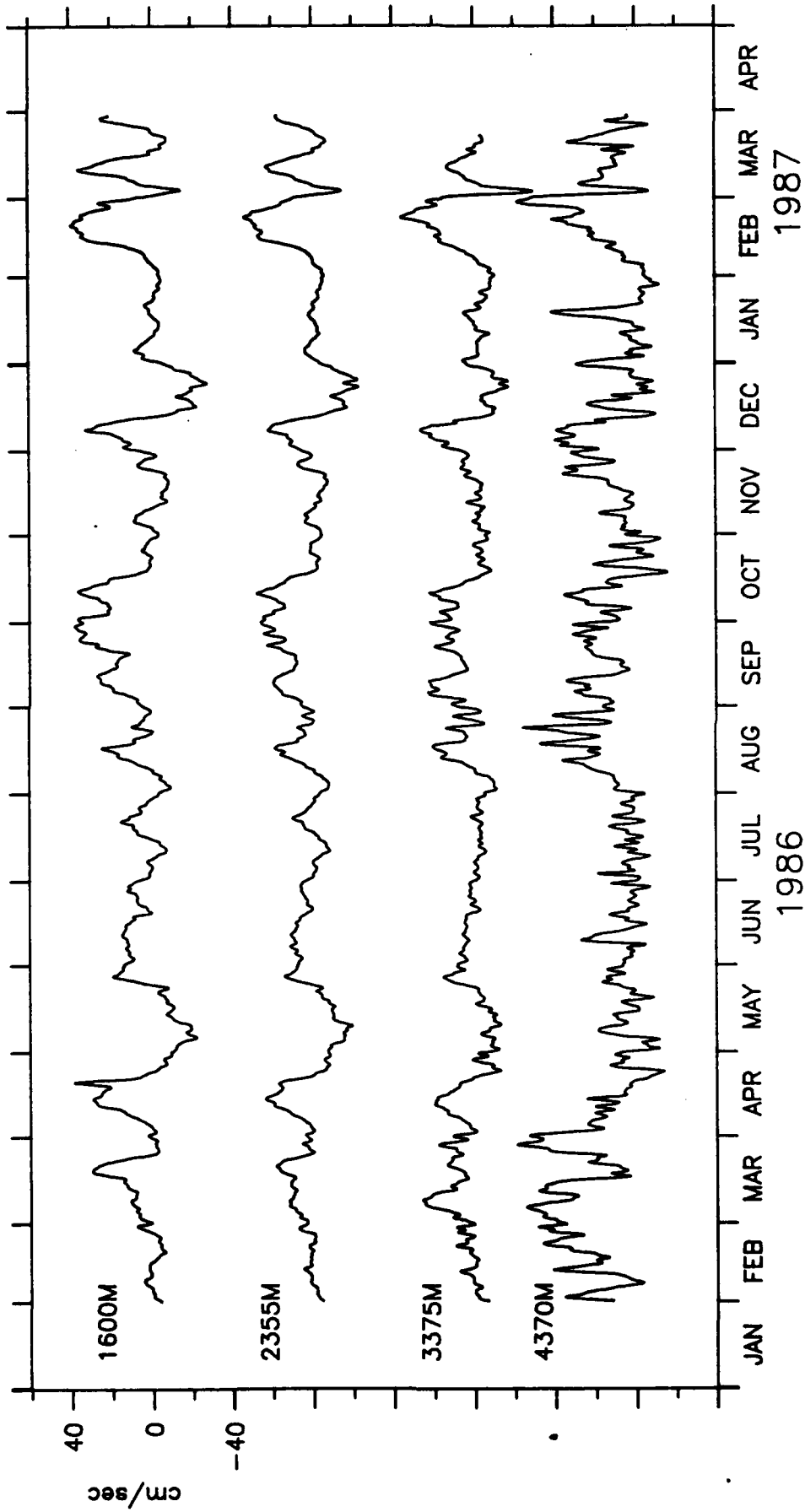
3375M AT MOORING 9.



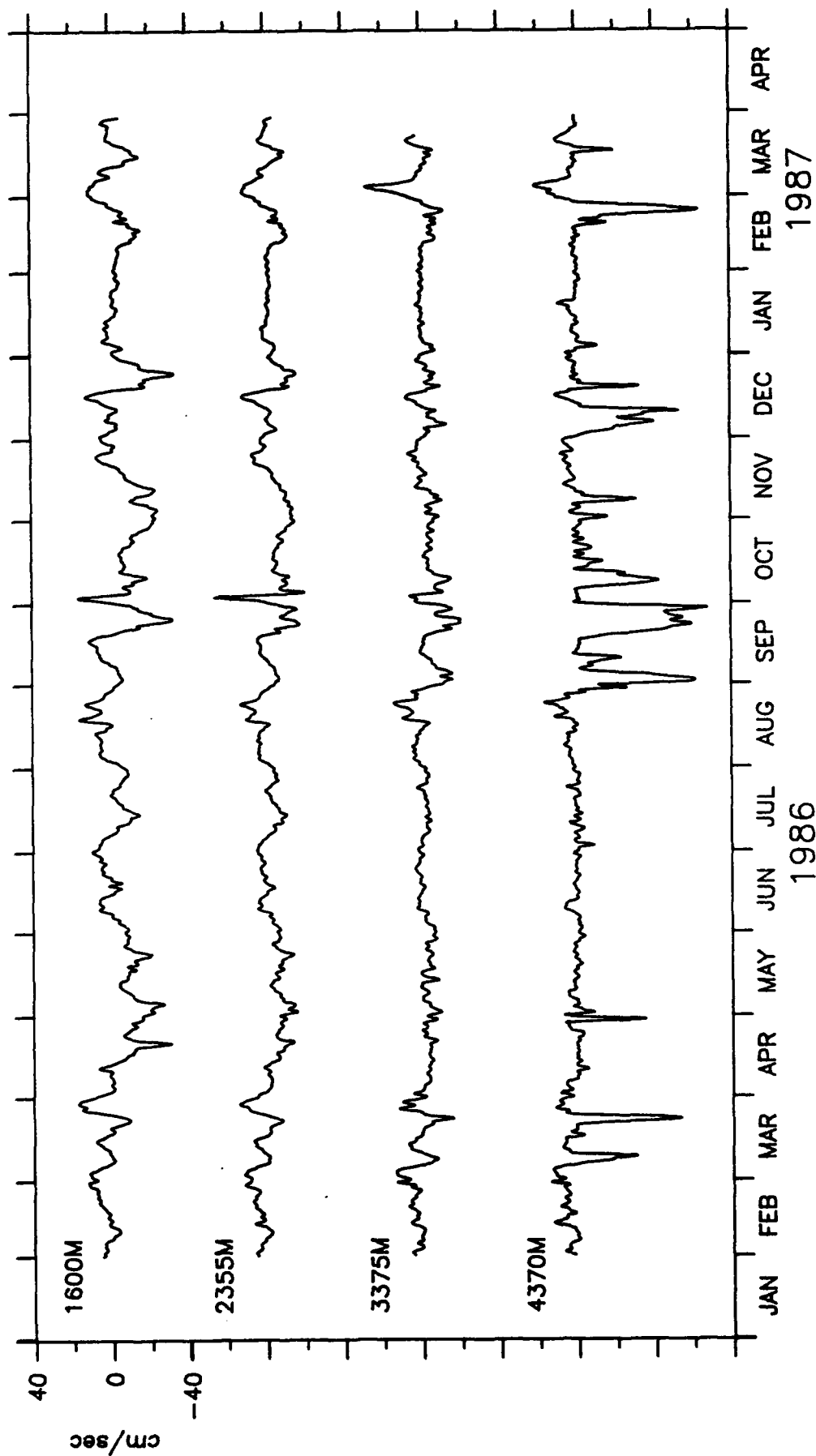
4370M AT MOORING 9.



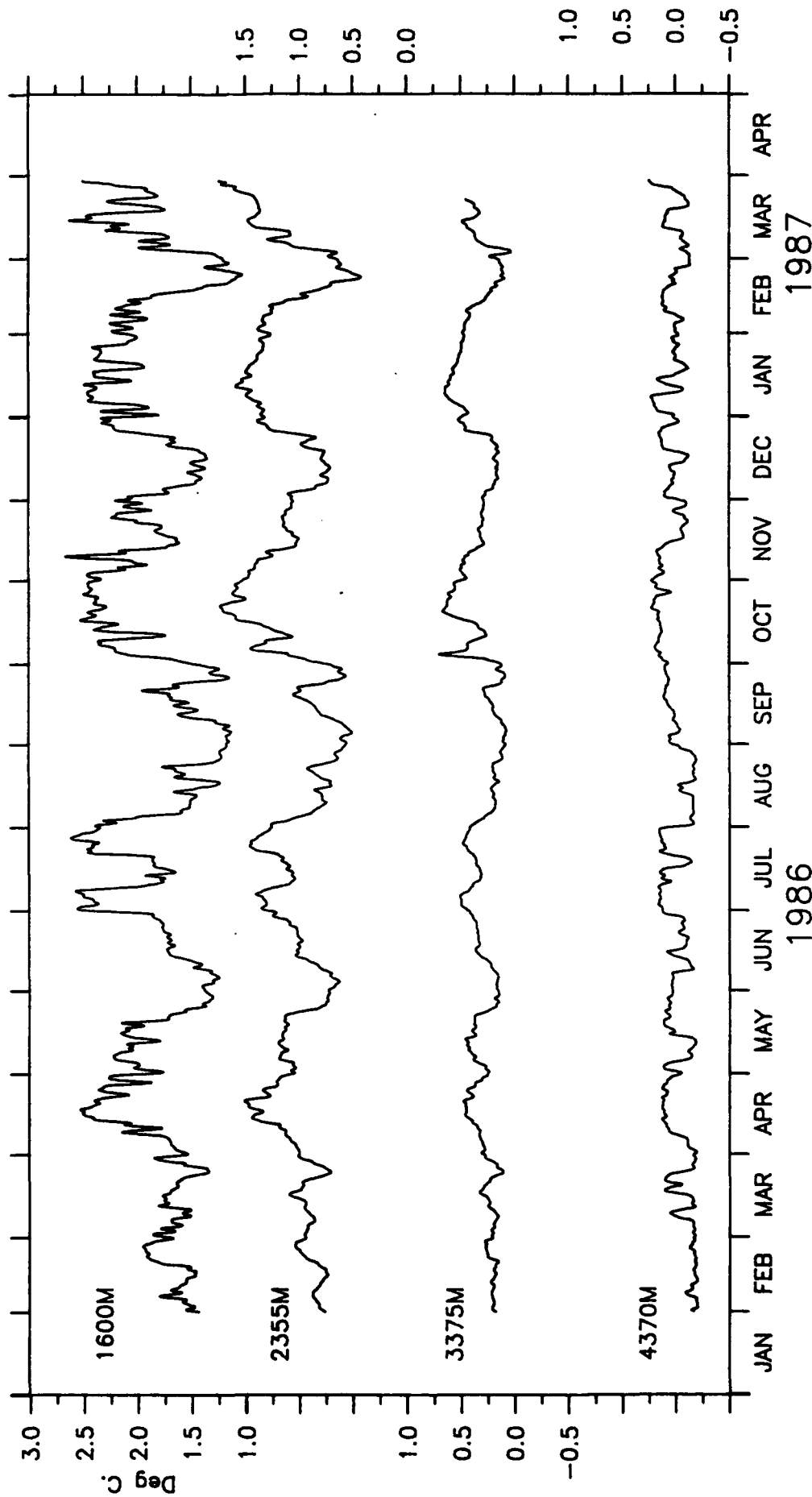
VELOCITY, MOORING 9.



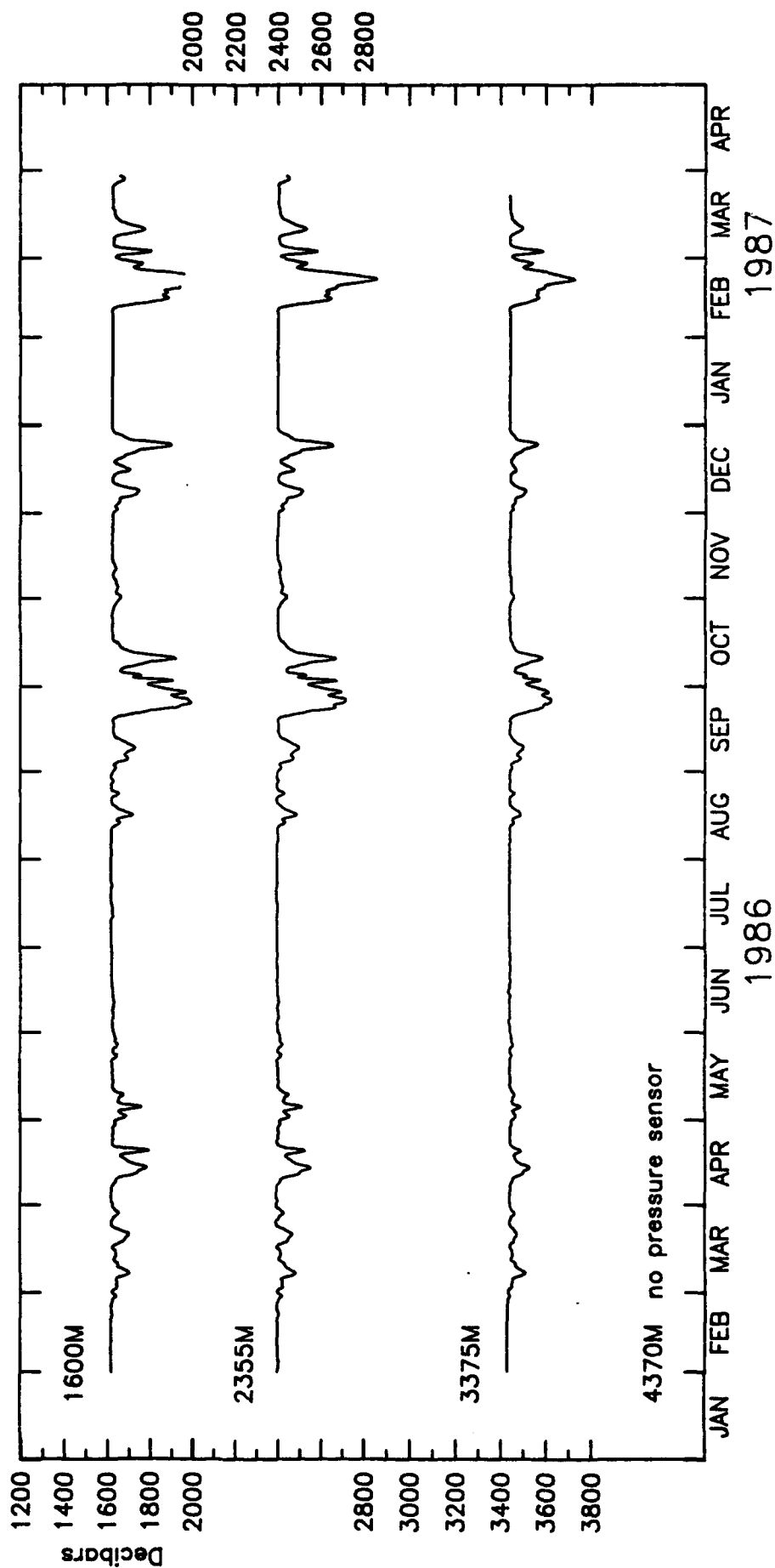
U-COMPONENT MOORING 9.



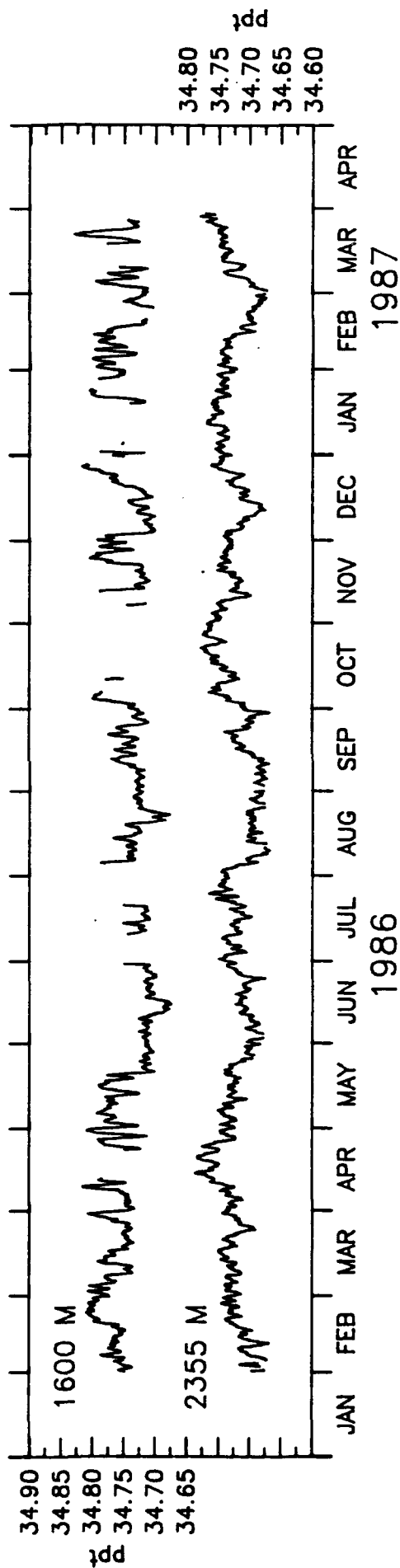
V-COMPONENT MOORING 9.



TEMPERATURE, MOORING 9



PRESSURE MOORING 9



CORRECTED SALINITY AT MOORING 9.

MOORING 10

49°09.81'S, 36°06.73'W

1986 1987

JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR

2595 M

S
O
T
P
Sol

3515 M

S
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4815 M

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O
T

DATA RETURN FROM MOORING 10.

MOORING 10. UNFILTERED HOURLY DATA

2535M AT MOORING 10. 1900 3 FEB 86 - 1700 1 APR 87. TAPE 7212/12.

| | MEAN | SD | MIN | MAX | LENGTH | ENDS AT |
|---|---------|-------|---------|---------|--------|-----------------|
| S | 11.52 | 6.57 | 0.80 | 41.40 | 10127 | (1700 1 APR 87) |
| U | 5.01 | 8.39 | -24.00 | 41.30 | 10127 | (1700 1 APR 87) |
| V | -2.67 | 8.56 | -39.60 | 26.30 | 10127 | (1700 1 APR 87) |
| T | 1.10 | 0.26 | 0.38 | 1.91 | 10127 | (1700 1 APR 87) |
| P | 2597.92 | 62.12 | 2570.10 | 3056.40 | 2886 | (0000 4 JUN 86) |

3515M AT MOORING 10. 1900 3 FEB 86 - 1700 1 APR 87. TAPE 2278/37.

| | MEAN | SD | MIN | MAX | LENGTH | ENDS AT |
|---|---------|-------|---------|---------|--------|-----------------|
| S | 10.01 | 7.99 | 0.80 | 60.20 | 10127 | (1700 1 APR 87) |
| U | 3.76 | 8.71 | -41.10 | 34.50 | 10127 | (1700 1 APR 87) |
| V | -1.21 | 8.52 | -60.20 | 30.10 | 10127 | (1700 1 APR 87) |
| T | 0.38 | 0.14 | 0.06 | 0.86 | 10127 | (1700 1 APR 87) |
| P | 3590.96 | 31.75 | 3570.00 | 3995.00 | 10127 | (1700 1 APR 87) |

4815M AT MOORING 10. 1900 3 FEB 86 - 1700 1 APR 87. TAPE 6591/9.

| | MEAN | SD | MIN | MAX | LENGTH | ENDS AT |
|---|-------|------|--------|-------|--------|-----------------|
| S | 12.05 | 8.59 | 0.80 | 50.20 | 10127 | (1700 1 APR 87) |
| U | 4.76 | 10.0 | -42.90 | 44.20 | 10127 | (1700 1 APR 87) |
| V | 1.31 | 9.63 | -45.30 | 41.30 | 10127 | (1700 1 APR 87) |
| T | 0.01 | 0.12 | -0.21 | 0.24 | 10127 | (1700 1 APR 87) |

(2535 M) PRESSURE RECORD TERMINATED EARLY DUE TO POOR QUALITY OF DATA.

(Speed, u, and v are given in cm/sec, Temperature in °C, Pressure in DB).

MOORING 10. LLP FILTERED 6-HOURLY DATA

2535M AT MOORING 10. 0000 5 FEB 86 - 1200 31 MAR 87. TAPE 7212/12

| | MEAN | SD | MIN | MAX | LENGTH | ENDS AT |
|---|---------|-------|---------|---------|--------|------------------|
| U | 5.02 | 8.01 | -20.42 | 29.07 | 1679 | (1200 31 MAR 87) |
| V | -2.68 | 8.20 | -34.90 | 19.97 | 1679 | (1200 31 MAR 87) |
| T | 1.10 | 0.26 | 0.41 | 1.84 | 1679 | (1200 31 MAR 87) |
| P | 2598.38 | 61.87 | 2569.89 | 3001.07 | 472 | (1800 2 JUN 86) |
| S | 34.72 | 4.98 | 34.66 | 34.83 | 1673 | (1800 31 MAR 87) |

3515M AT MOORING 10. 0000 5 FEB 86 - 1200 31 MAR 87. TAPE 2278/37

| | | | | | | |
|---|---------|-------|---------|---------|------|------------------|
| U | 3.74 | 8.30 | -34.46 | 32.06 | 1679 | (1200 31 MAR 87) |
| V | -1.23 | 8.17 | -55.00 | 26.02 | 1679 | (1200 31 MAR 87) |
| T | 0.38 | 0.13 | 0.08 | 0.77 | 1679 | (1200 31 MAR 87) |
| P | 3590.93 | 31.08 | 3570.96 | 3945.29 | 1679 | (1200 31 MAR 87) |

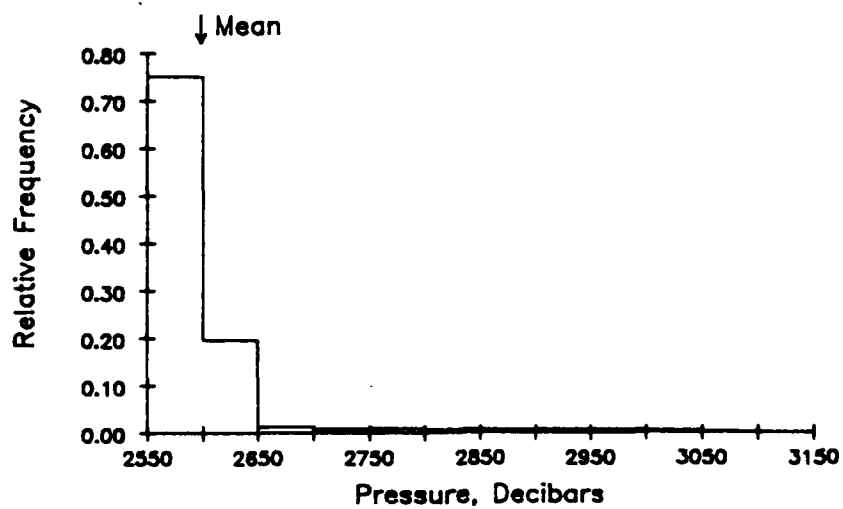
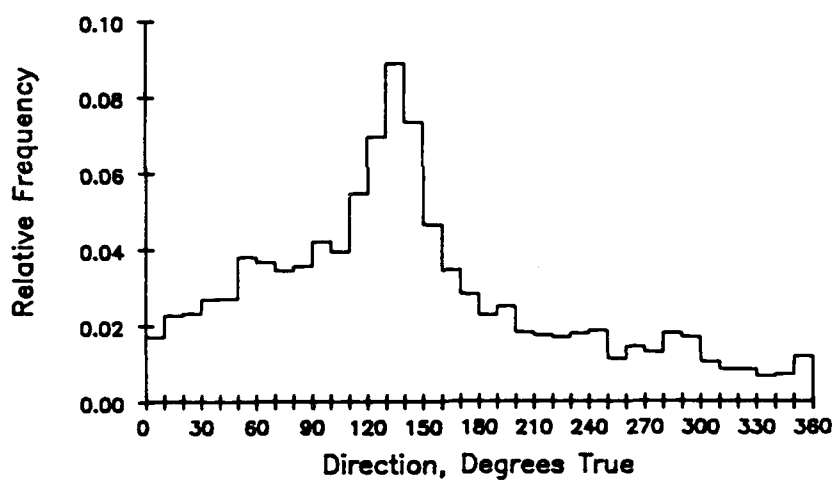
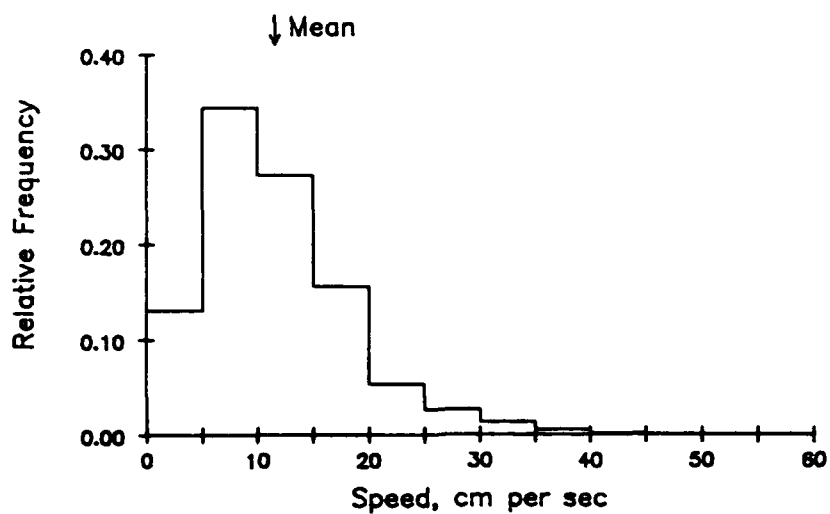
4815M AT MOORING 10. 0000 5 FEB 86 - 1200 31 MAR 87. TAPE 6591/9.

| | | | | | | |
|---|------|------|--------|-------|------|------------------|
| U | 4.70 | 9.56 | -35.43 | 40.04 | 1679 | (1200 31 MAR 87) |
| V | 1.26 | 9.10 | -35.83 | 32.66 | 1679 | (1200 31 MAR 87) |
| T | 0.01 | 0.12 | -0.21 | 0.23 | 1679 | (1200 31 MAR 87) |

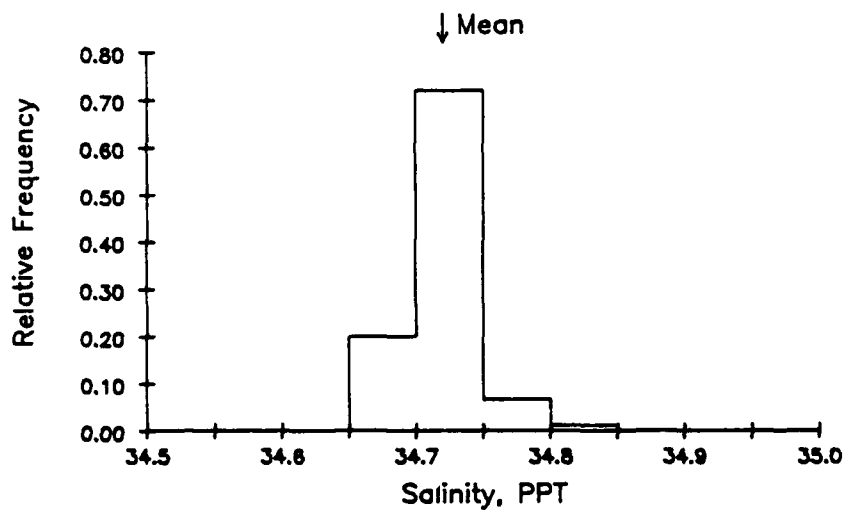
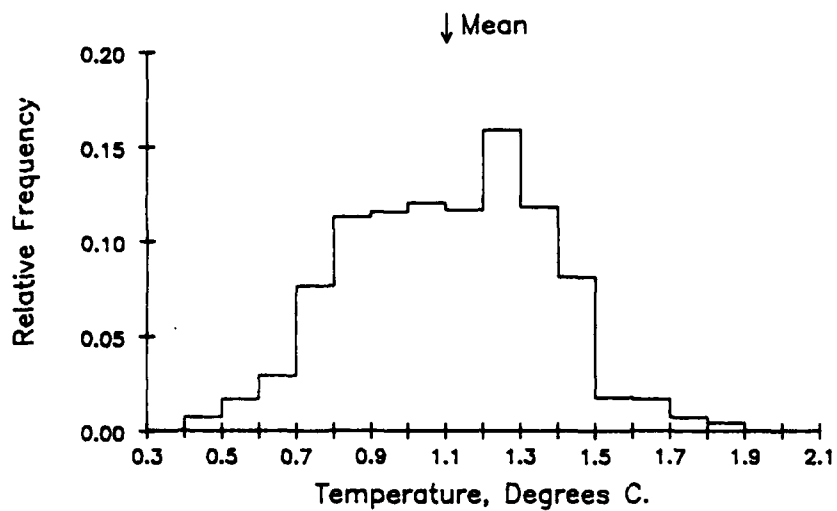
(2535 M) PRESSURE RECORD TERMINATED EARLY DUE TO POOR QUALITY
OF DATA.
BAD SALINITY POINTS SET TO ZERO.

(Speed, u, and v are given in cm/sec, Temperature in °C, Pressure in
DB, and Corrected Salinity in ppt.)

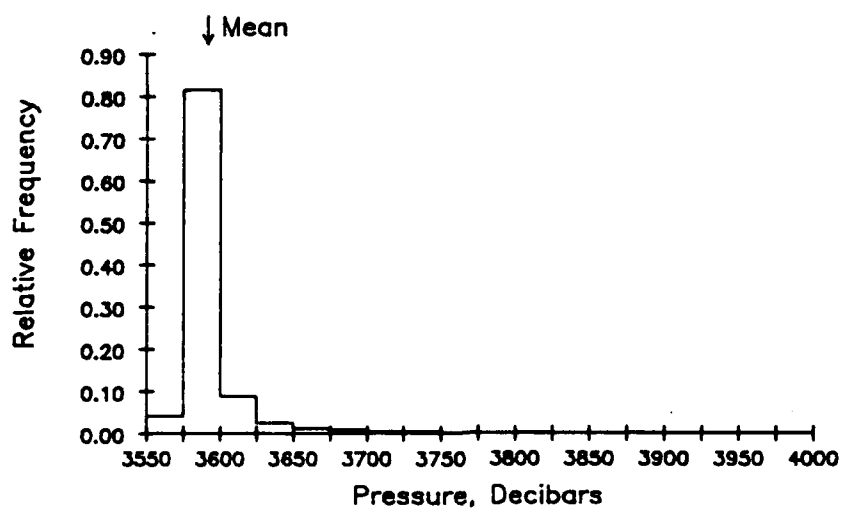
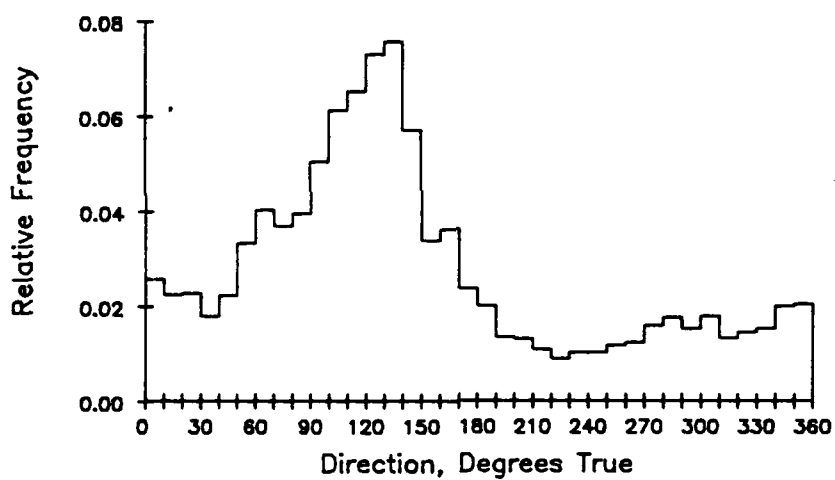
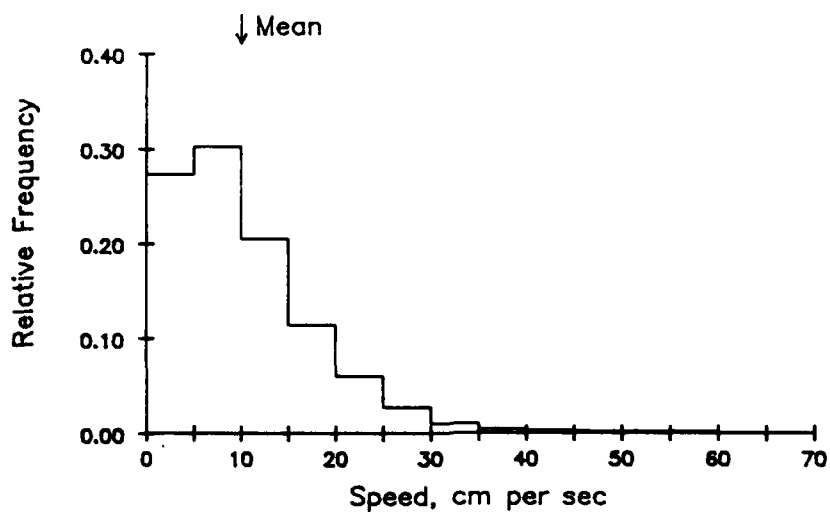
2535 METERS AT MOORING 10. TAPE 7212/12.



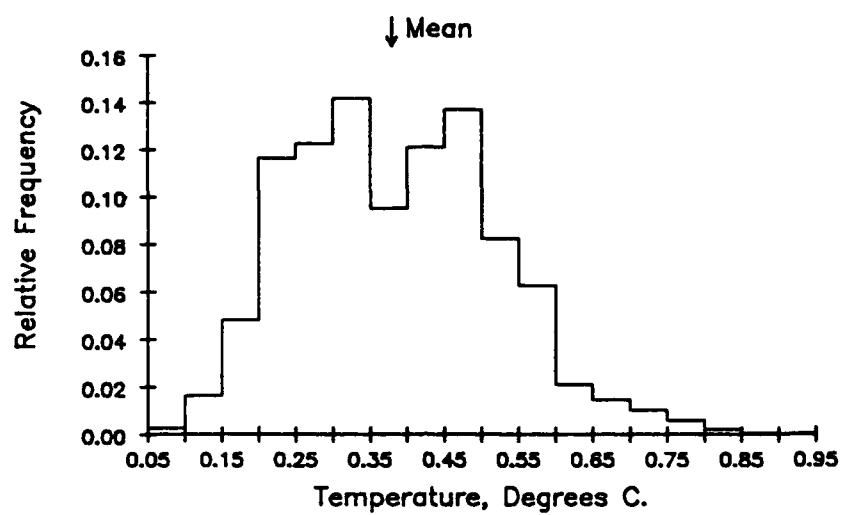
2535 METERS AT MOORING 10. TAPE 7212/12.



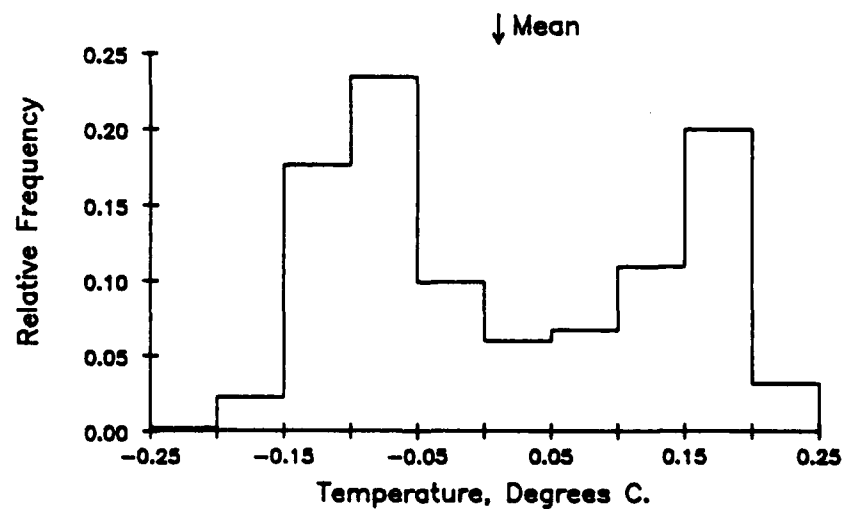
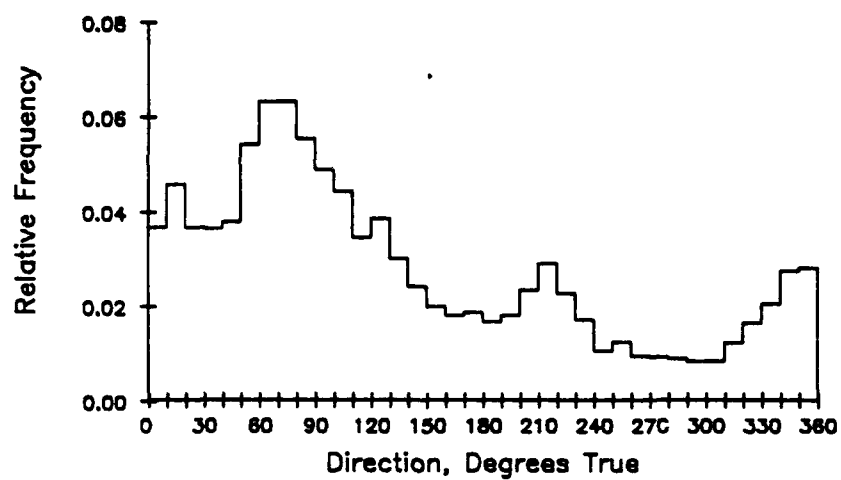
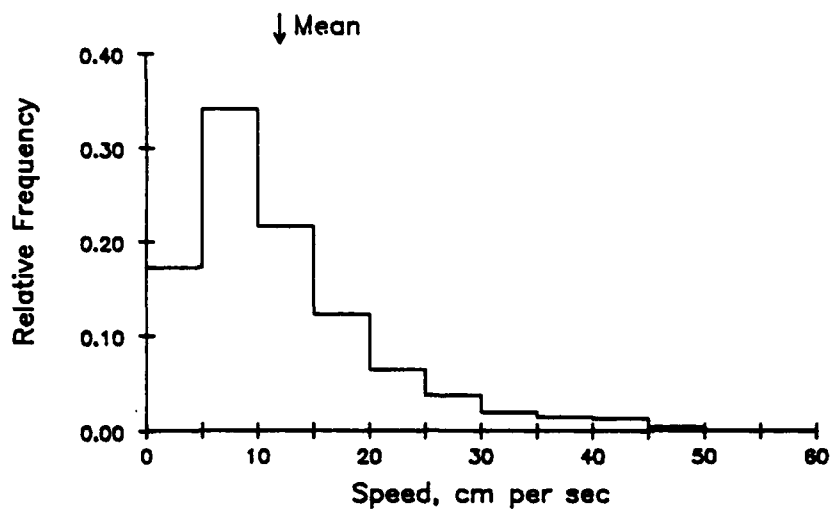
3515 METERS AT MOORING 10. TAPE 2278/37.



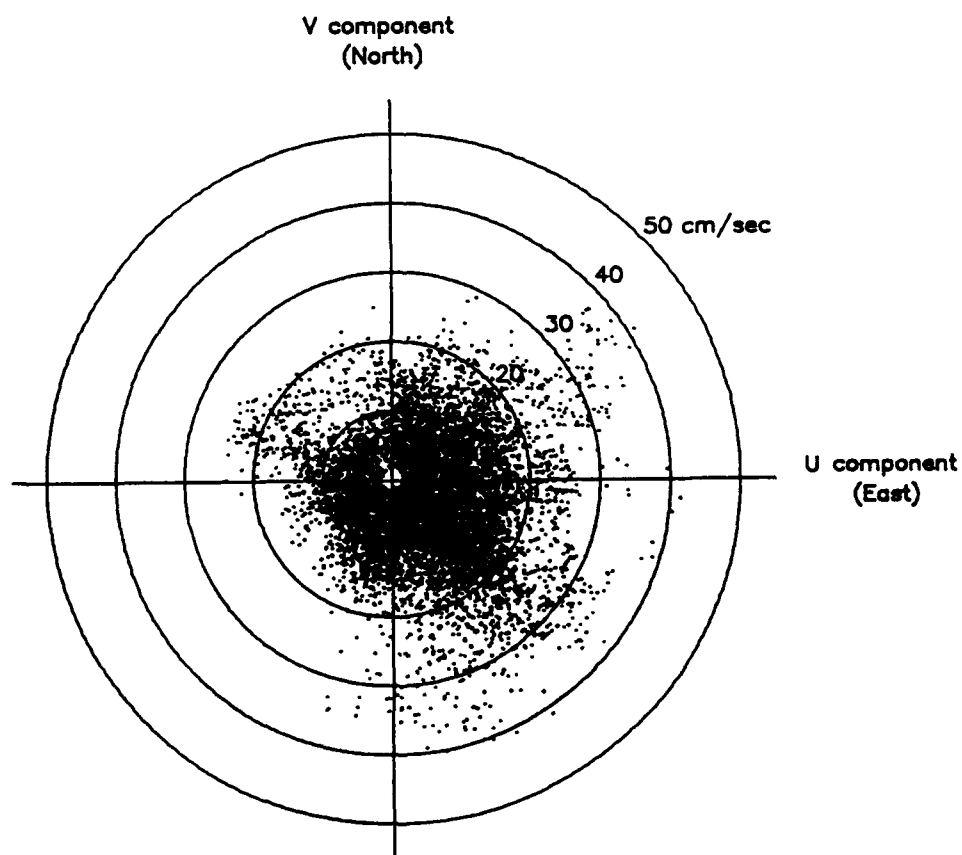
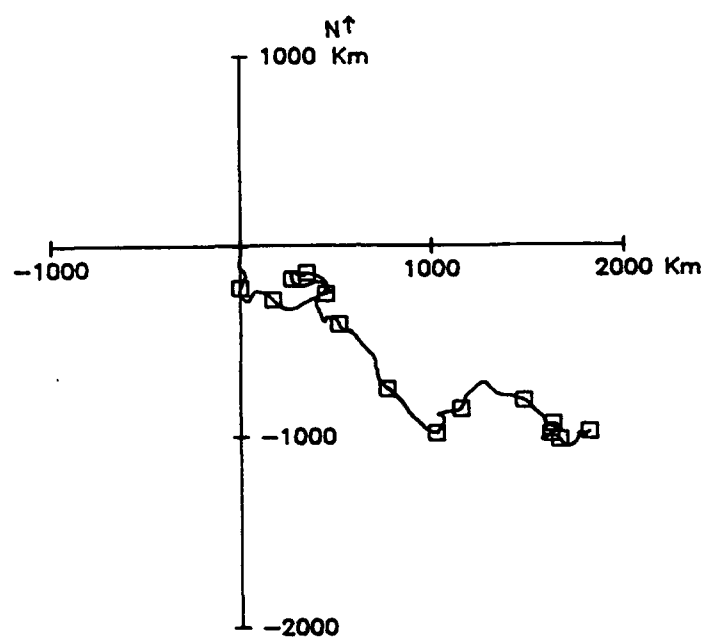
3515 METERS AT MOORING 10. TAPE 2278/37.



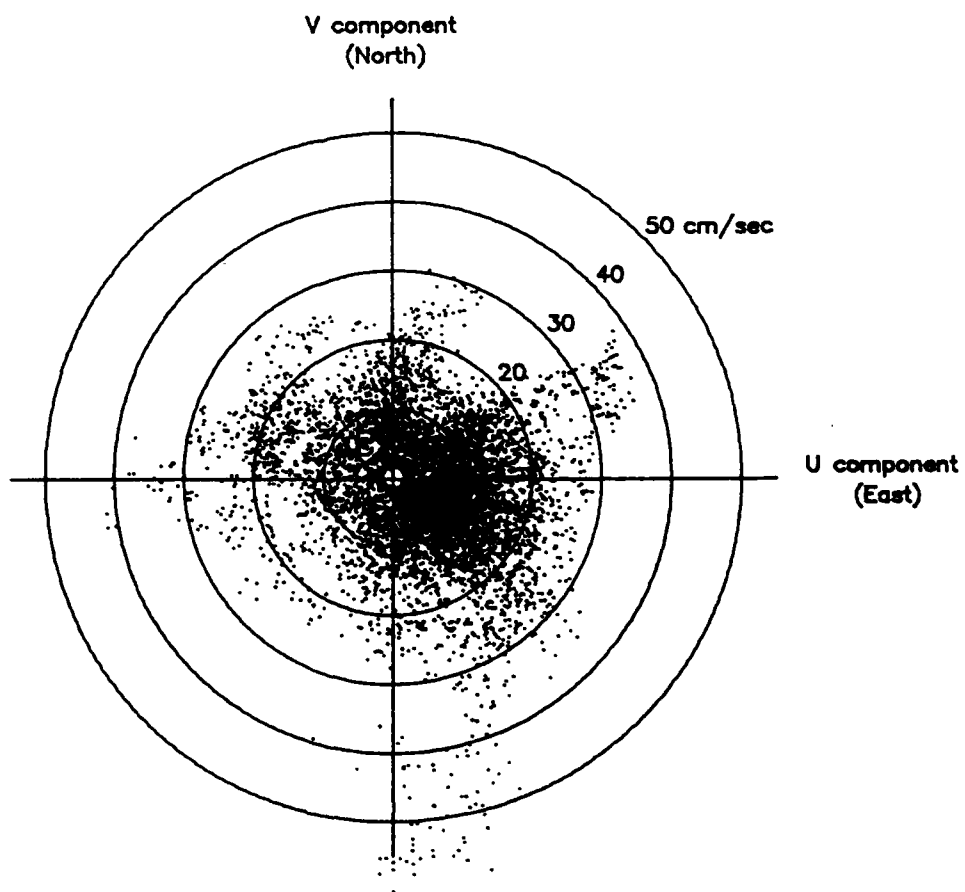
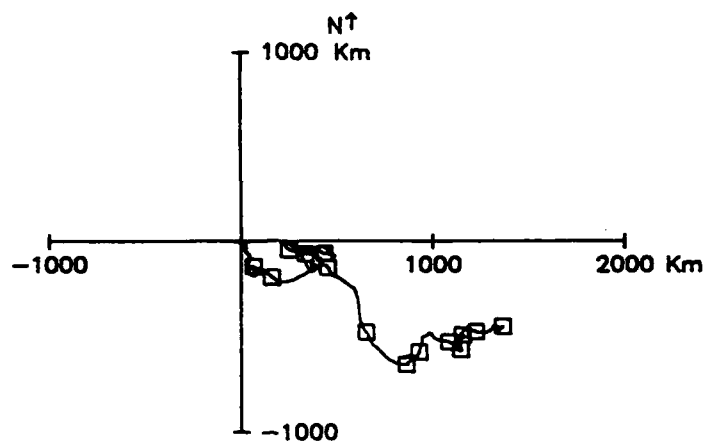
4815 METERS AT MOORING 10. TAPE 6591/9.



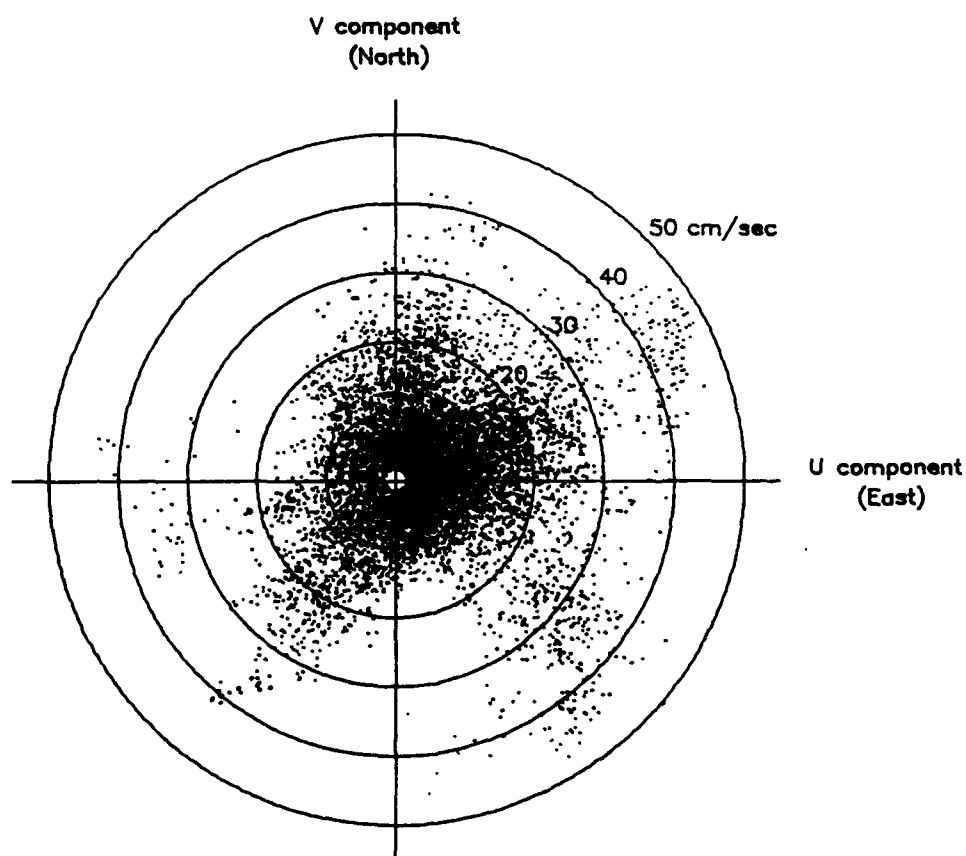
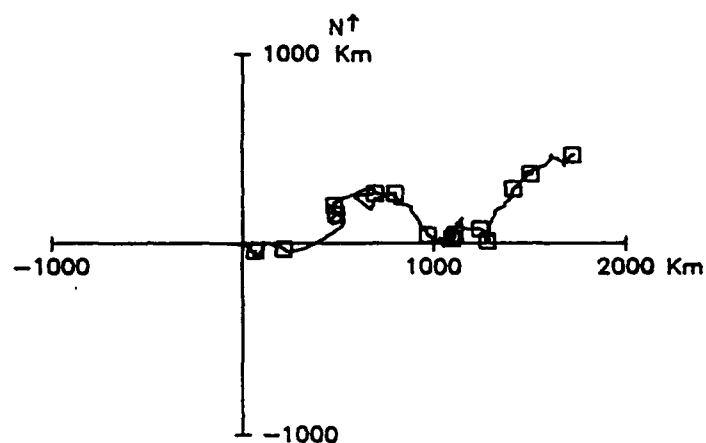
2535M AT MOORING 10. 3 FEB 86 - 1 APR 87. TAPE 7212/12.



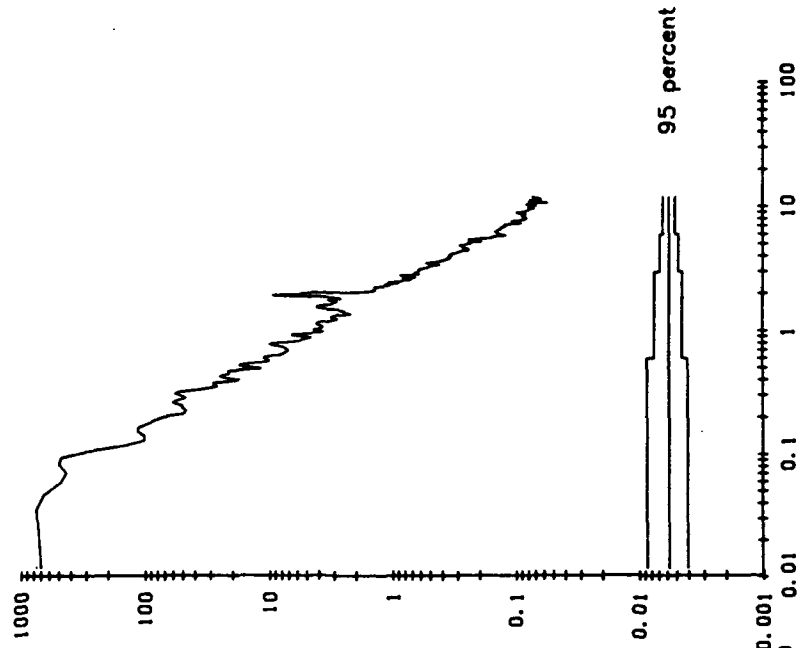
3515M AT MOORING 10. 3 FEB 86 - 1 APR 87. TAPE 2278/37.



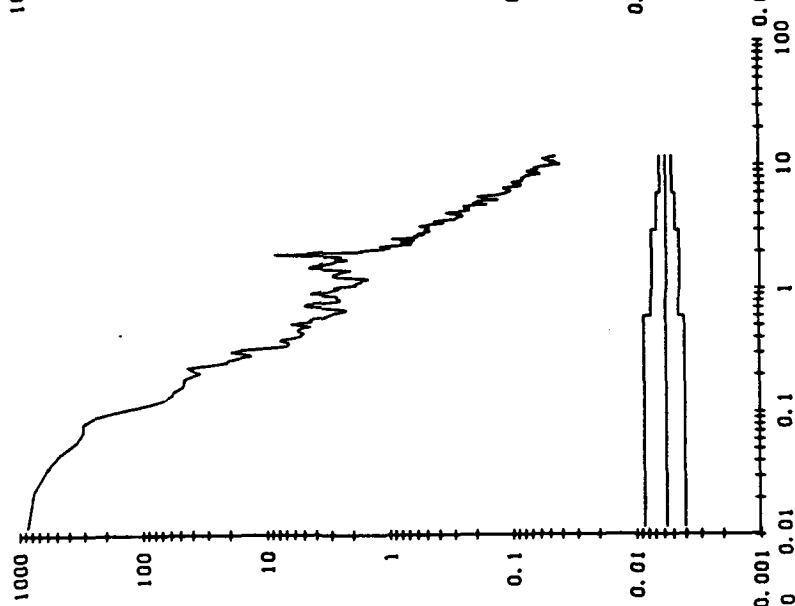
4815M AT MOORING 10. 3 FEB 86 - 1 APR 87. TAPE 6591/9.



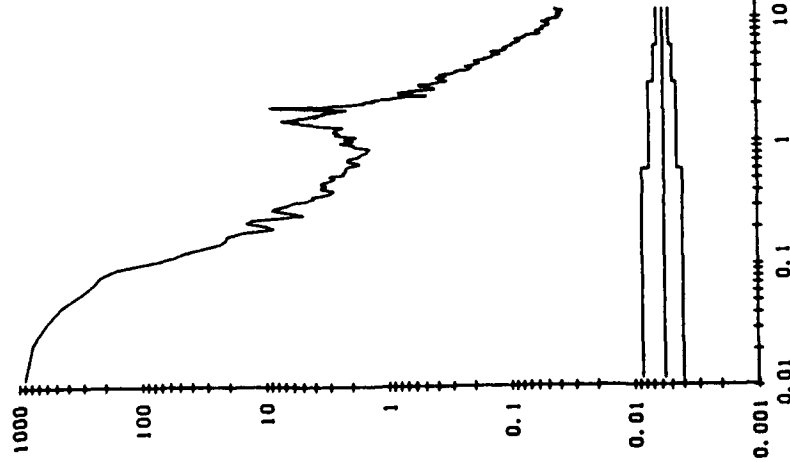
Unfiltered current. 4815 m at Mooring 10.
Both components



Unfiltered current. 3515 m at Mooring 10.
Both components



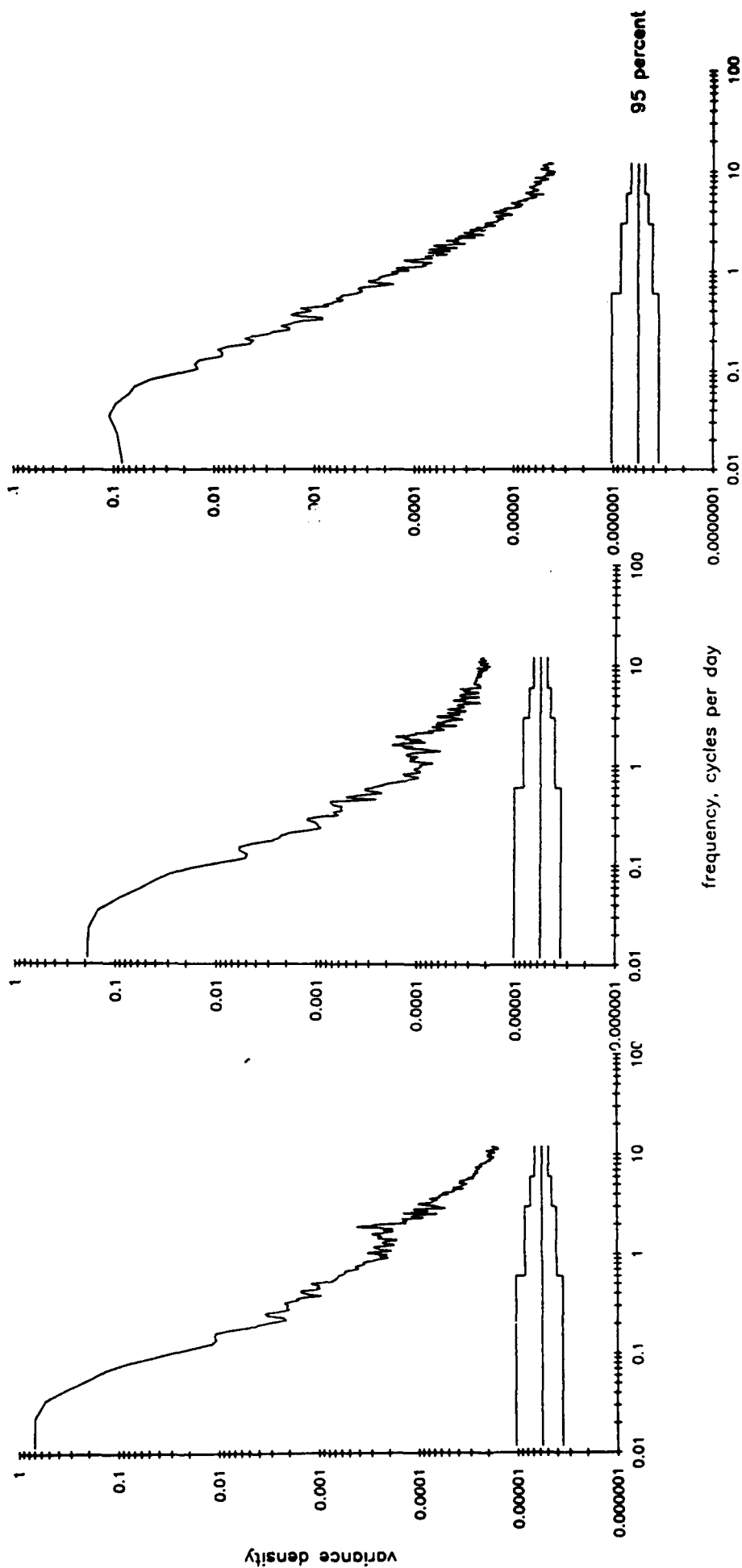
Unfiltered current. 2535 m at Mooring 10.
Both components

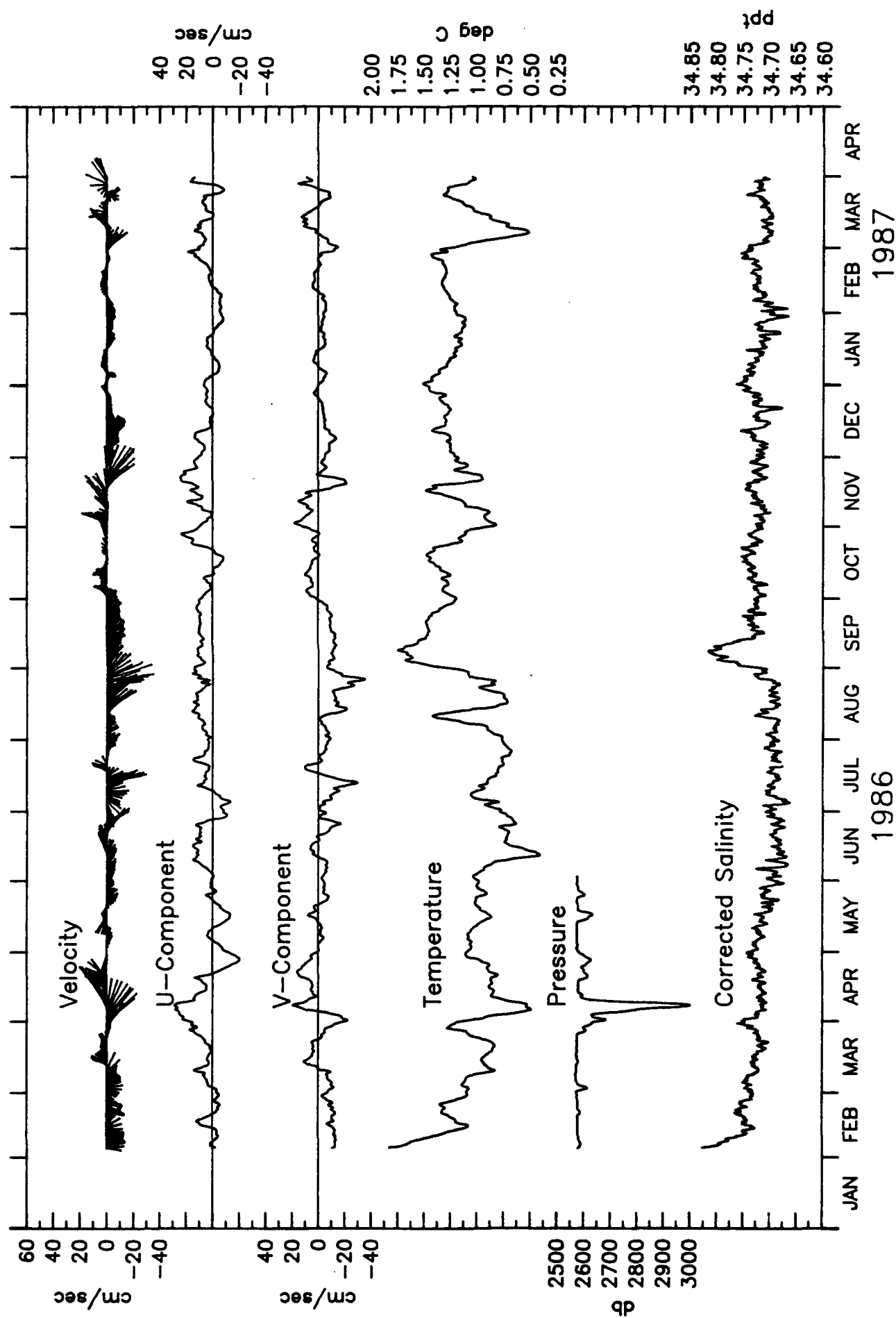


frequency, cycles per day

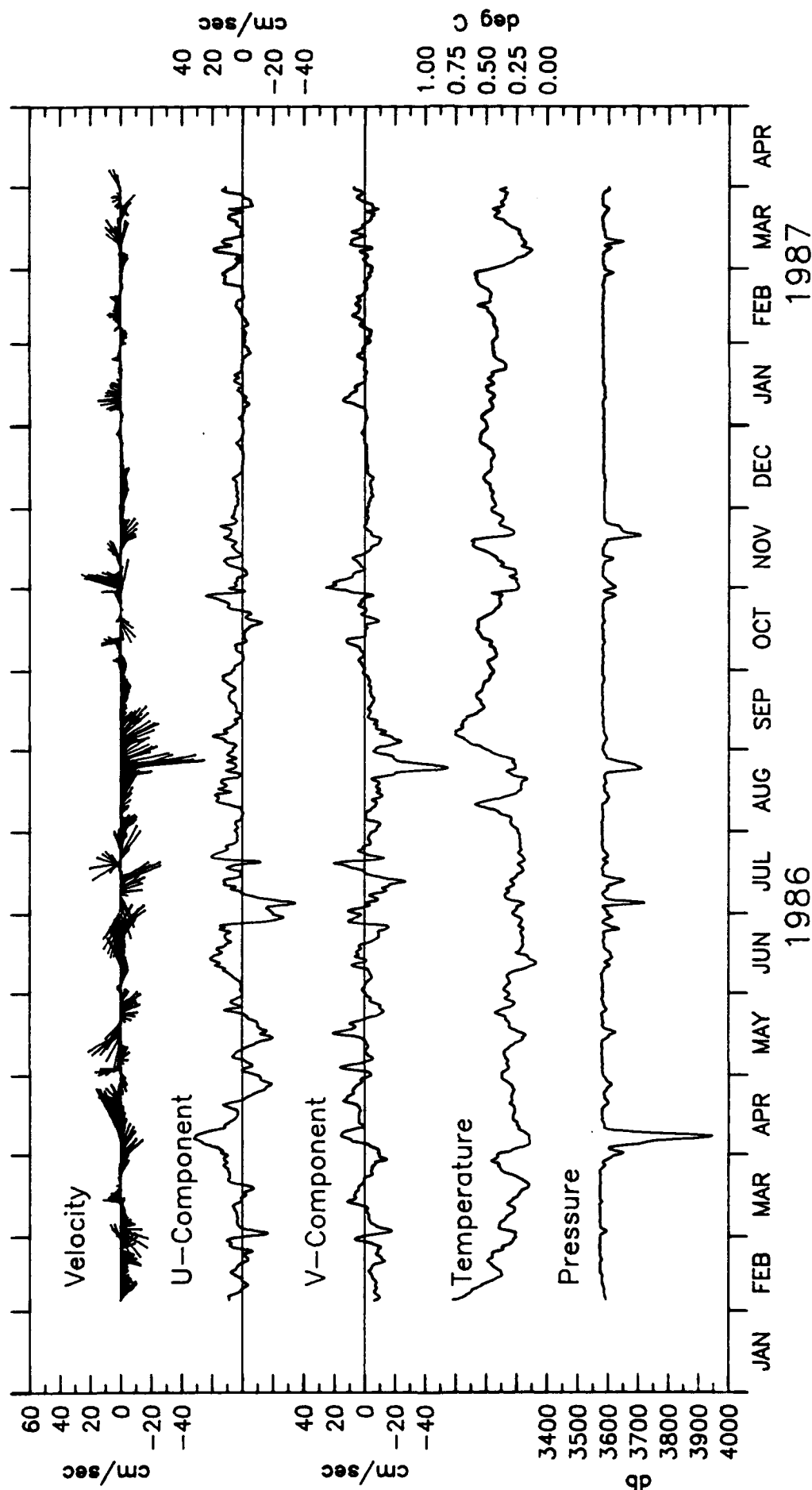
KE density

Unfiltered temperature. 2535 m at Mooring 10. Unfiltered temperature. 3515 m at Mooring 10. Unfiltered temperature. 4815 m at Mooring 10.

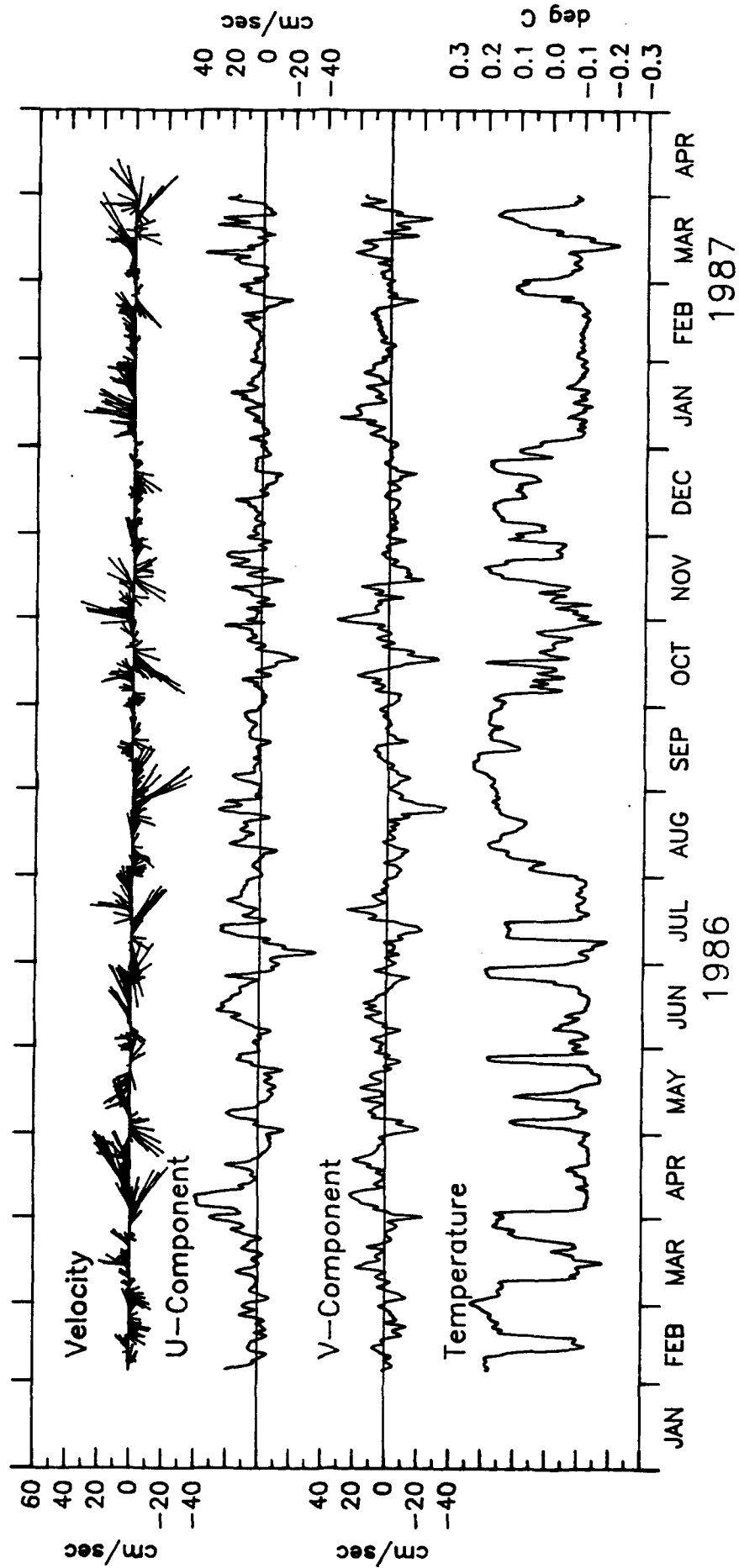




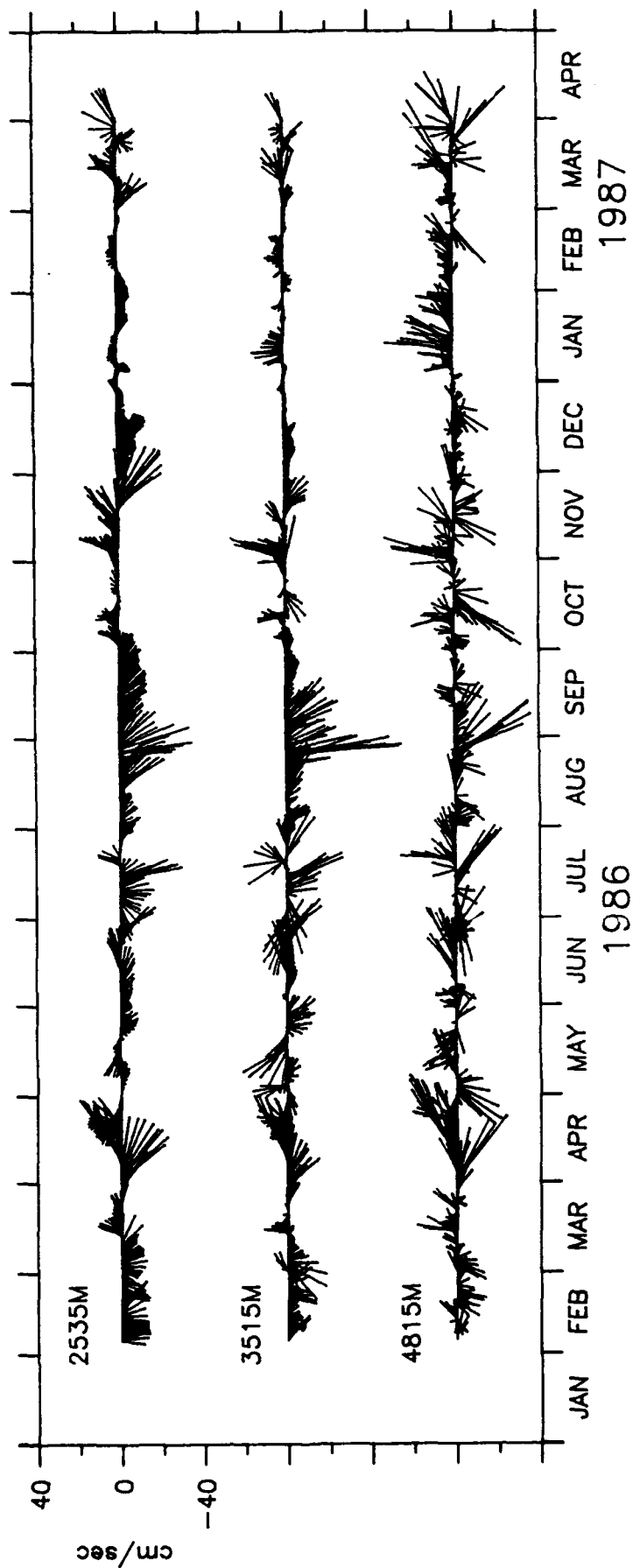
2535 M AT MOORING 10.



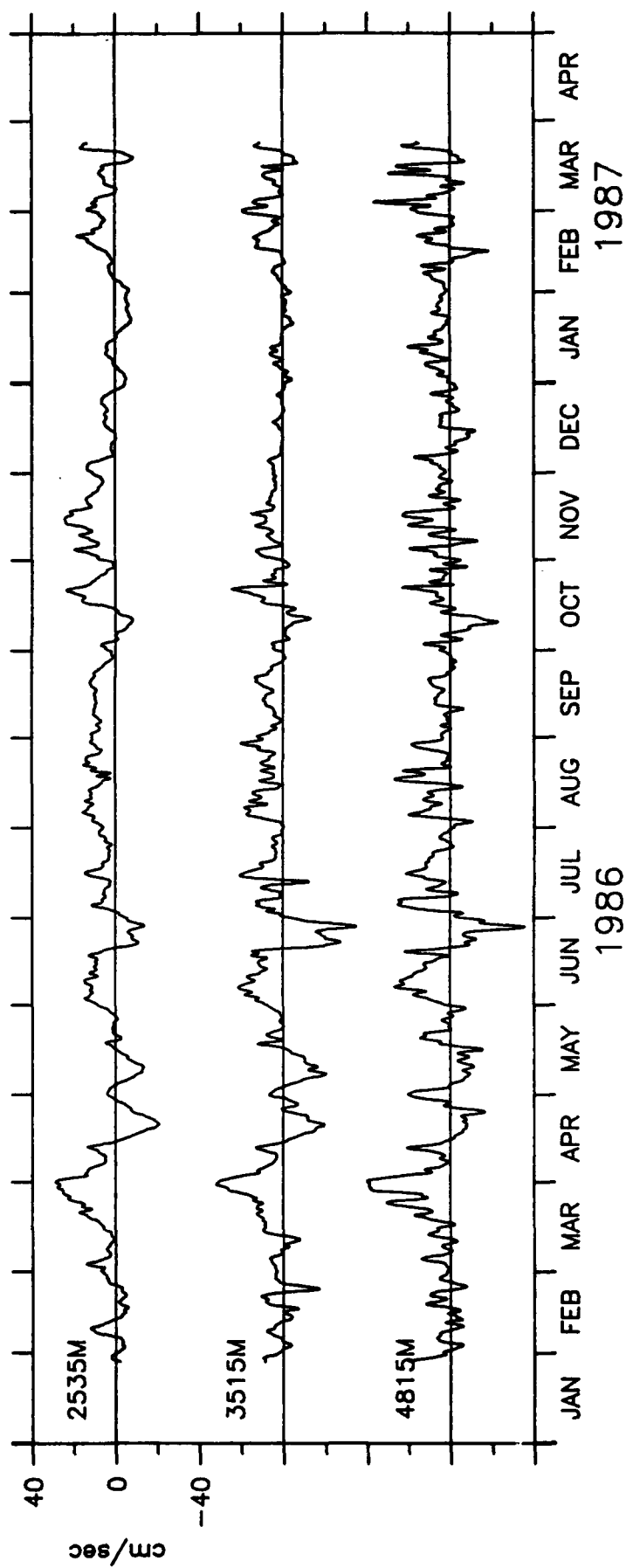
3515M AT MOORING 10.



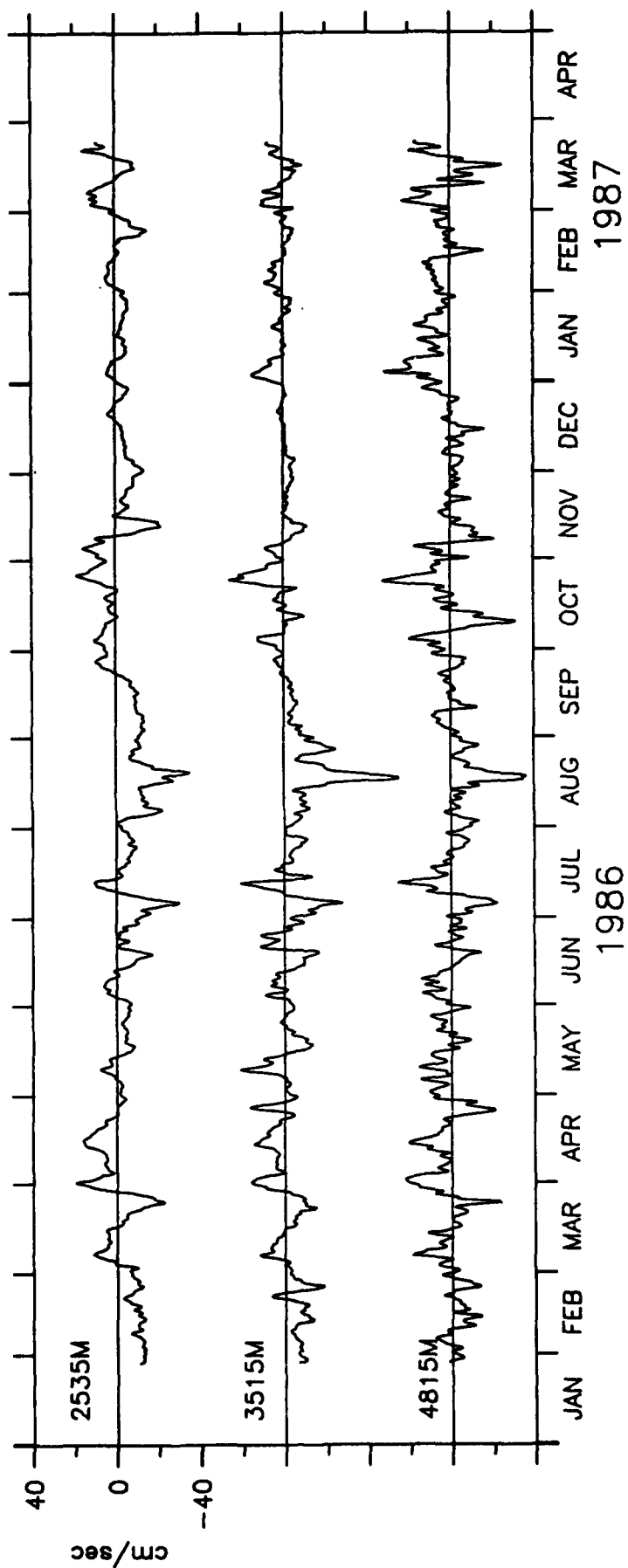
4815M AT MOORING 10.



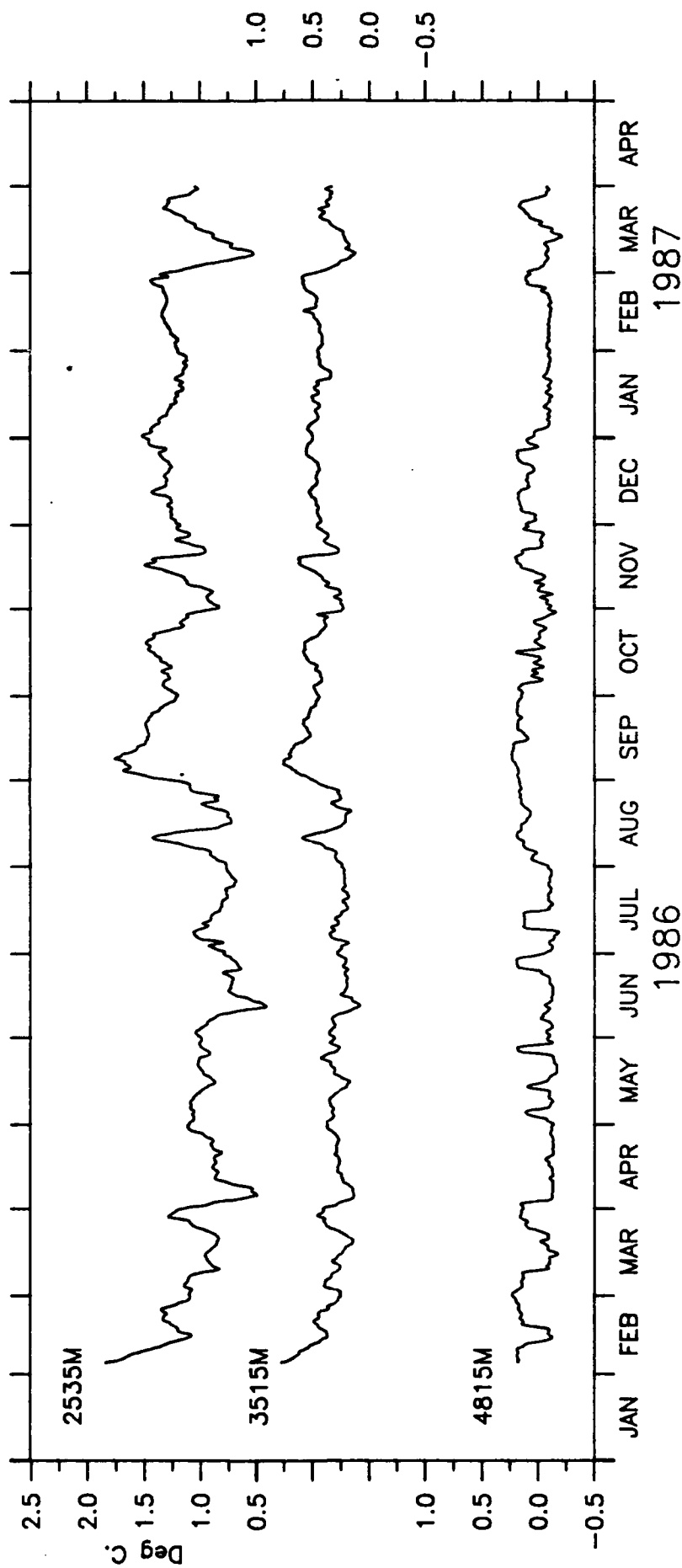
VELOCITY, MOORING 10.



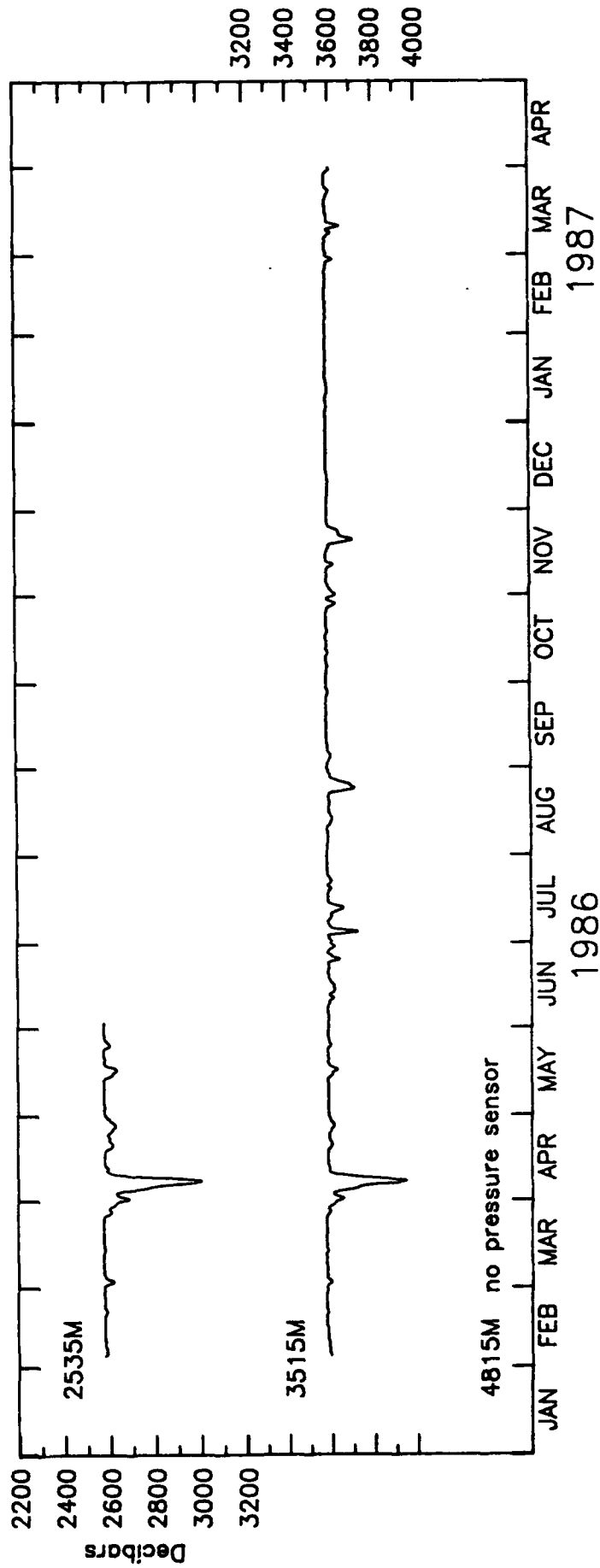
U-COMPONENT. MOORING 10.



V-COMPONENT. MOORING 10.



TEMPERATURE, MOORING 10.



PRESSURE MOORING 10.

MOORING 11

48°52.44'S, 35°40.67'W

1986 1987

JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR

2805 M

S
A
T
P

3750 M

S
A
T
P

5100 M

S
A
T

DATA RETURN FROM MOORING 11.

MOORING 11. UNFILTERED HOURLY DATA.

2805M AT MOORING 11. 1400 4 FEB 86 - 1100 1 APR 87. TAPE 7213/11.

| | MEAN | SD | MIN | MAX | LENGTH | ENDS AT |
|---|---------|-------|---------|---------|--------|-----------------|
| S | 9.54 | 7.30 | 0.80 | 63.20 | 10102 | (1100 1 APR 87) |
| U | 0.39 | 9.75 | -58.20 | 33.40 | 10102 | (1100 1 APR 87) |
| V | -1.75 | 6.78 | -36.20 | 34.20 | 10102 | (1100 1 APR 87) |
| T | 0.96 | 0.25 | 0.19 | 1.44 | 10102 | (1100 1 APR 87) |
| P | 2885.37 | 63.31 | 2842.70 | 3583.00 | 10071 | (1100 1 APR 87) |

3750M AT MOORING 11. 1400 4 FEB 86 - 2100 11 MAY 86. TAPE 2280/37.

| | | | | | | |
|---|---------|-------|---------|---------|------|------------------|
| S | 10.33 | 9.37 | 0.80 | 49.50 | 1735 | (2000 17 APR 86) |
| U | -2.55 | 11.48 | -45.20 | 16.20 | 1728 | (1300 17 APR 86) |
| V | -3.02 | 6.92 | -32.00 | 13.10 | 1728 | (1300 17 APR 86) |
| T | 0.27 | 0.09 | 0.11 | 0.57 | 2312 | (2100 11 MAY 86) |
| P | 3891.25 | 89.03 | 3809.00 | 4477.00 | 2265 | (2200 9 MAY 86) |

5100M AT MOORING 11. 1400 4 FEB 86 - 1100 1 APR 87. TAPE 6730/13.

| | | | | | | |
|---|-------|-------|--------|-------|-------|------------------|
| S | 9.55 | 10.67 | 0.80 | 66.80 | 10102 | (1100 1 APR 87) |
| U | 2.30 | 7.11 | -37.20 | 38.60 | 9824 | (2100 20 MAR 87) |
| V | -2.18 | 10.96 | -66.80 | 22.70 | 9824 | (2100 20 MAR 87) |
| T | 0.12 | 0.10 | -0.11 | 0.30 | 10102 | (1100 1 APR 87) |

(2805 M) SPEED BRIDGED

7007 - 7026 (1200 23 NOV 86 - 0700 24 NOV 86).

PRESSURE OFFSCALE, GAPS IN LINES :

408 - 417 (1300 21 FEB 86 - 2200 21 FEB 86)

426 - 435 (0700 22 FEB 86 - 1600 22 FEB 86)

10001-10011 (0600 28 MAR 87 - 1600 28 MAR 87)

(3750 M) ALL DATA CHANNELS WENT BAD EARLY IN INSTALLATION, POSSIBLY DUE TO LOW BATTERY.

(5100 M) COMPASS MALFUNCTION CAUSED SHORT DIRECTION RECORD.

(Speed, u, and v are given in cm/sec, Temperature in °C, Pressure in DB).

MOORING 11. LLP FILTERED 6 HOURLY DATA

2805M AT MOORING 11. 1800 5 FEB 86 - 0600 31 MAR 87. TAPE 7213/11.

| | MEAN | SD | MIN | MAX | LENGTH | ENDS AT |
|---|---------|-------|---------|---------|--------|------------------|
| U | 0.47 | 9.32 | -43.79 | 28.76 | 1675 | (0600 31 MAR 87) |
| V | -1.76 | 6.25 | -25.45 | 29.39 | 1675 | (0600 31 MAR 87) |
| T | 0.96 | 0.25 | 0.25 | 1.40 | 1675 | (0600 31 MAR 87) |
| P | 2882.39 | 53.08 | 2831.14 | 3411.97 | 1646 | (0000 27 MAR 87) |

3750M AT MOORING 11. 1800 5 FEB 86 - 1800 10 MAY 86. TAPE 2280/37.

| | | | | | | |
|---|---------|-------|---------|---------|-----|------------------|
| U | -2.58 | 11.25 | -38.46 | 10.89 | 279 | (0600 16 APR 86) |
| V | -3.15 | 6.29 | -20.06 | 9.04 | 279 | (0600 16 APR 86) |
| T | 0.26 | 0.09 | 0.14 | 0.53 | 377 | (1800 10 MAY 86) |
| P | 3892.30 | 87.95 | 3809.66 | 4350.17 | 369 | (1800 8 MAY 86) |

5100M AT MOORING 11. 1800 5 FEB 86 - 0600 31 MAR 87. TAPE 6730/13.

| | | | | | | |
|---|-------|-------|--------|-------|------|------------------|
| U | 2.34 | 6.43 | -24.94 | 29.17 | 1629 | (1800 19 MAR 87) |
| V | -2.11 | 10.33 | -60.04 | 15.79 | 1629 | (1800 19 MAR 87) |
| T | 0.12 | 0.10 | -0.09 | 0.29 | 1675 | (0600 31 MAR 87) |

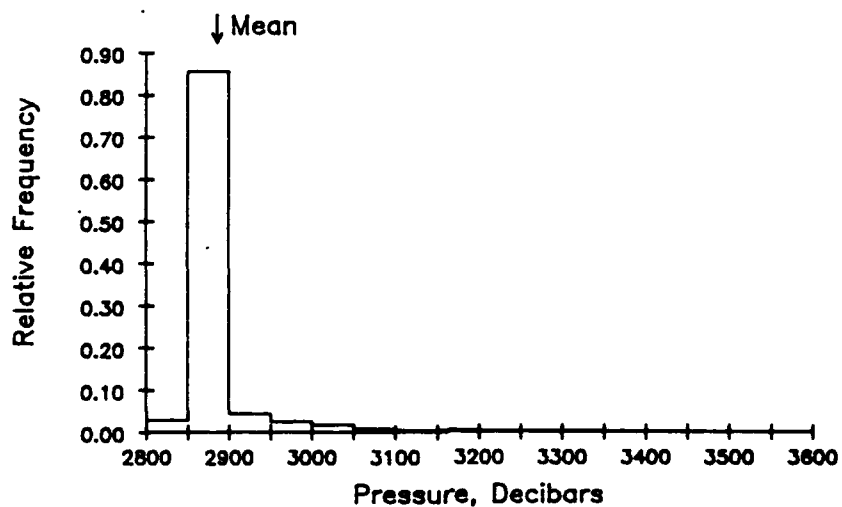
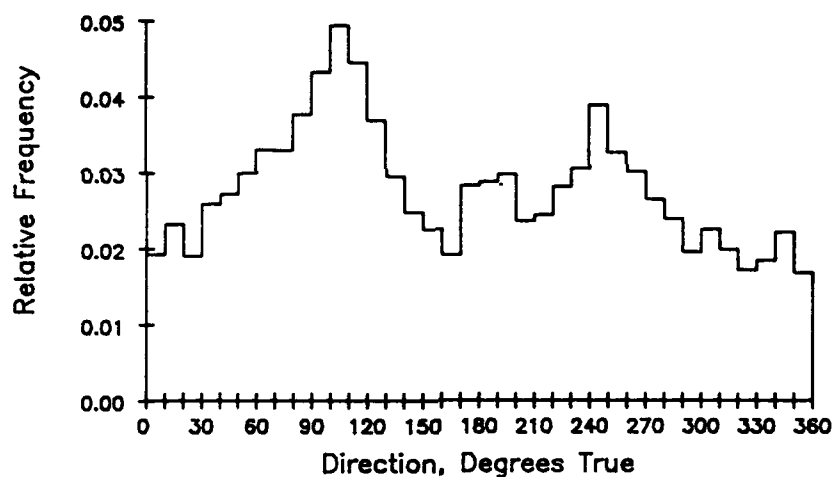
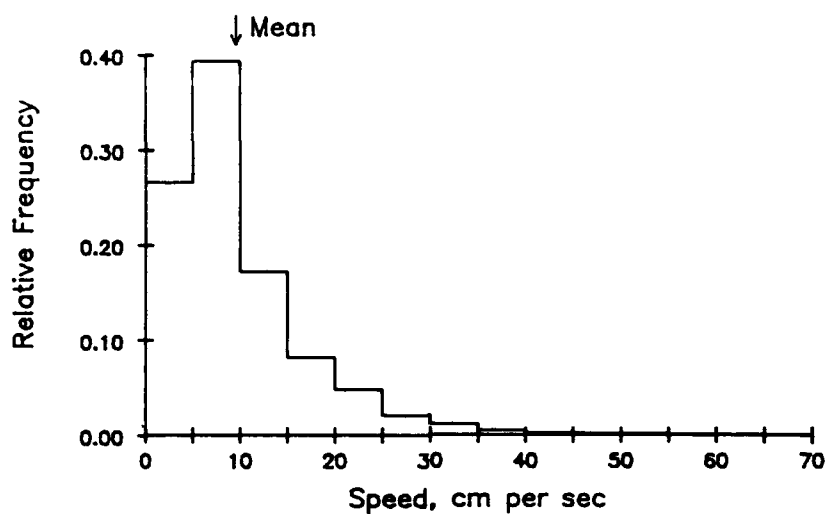
(2805 M) SPEED BRIDGE IN UNFILTERED RECORD
 PRESSURE OFFSCALE, GAPS IN UNFILTERED RECORD,
 LLP GAPS LINES:
 61 - 72 (1800 20 FEB 86 - 1200 23 FEB 86)
 1658 - 1675 (0600 27 MAR 87 - 0600 31 MAR 87)

(3750 M) ALL DATA CHANNELS WENT BAD EARLY IN INSTALLATION, LOW BATTERY

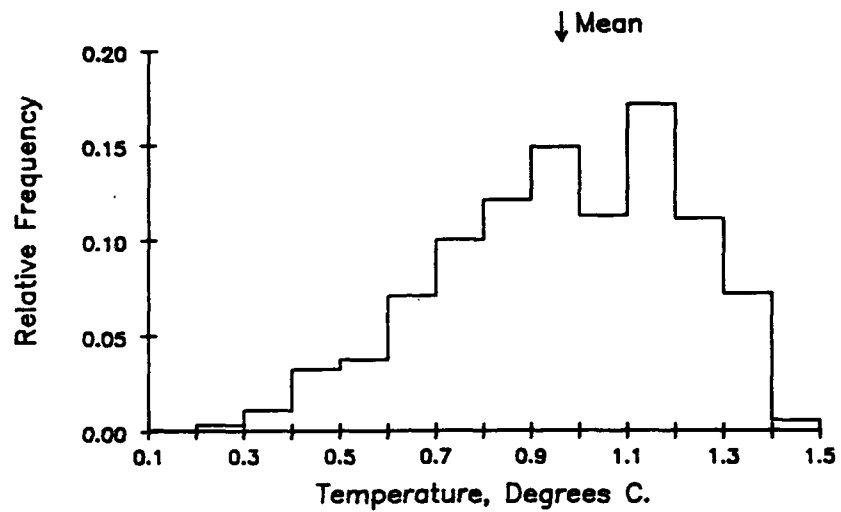
(5100 M) COMPASS MALFUNCTION CAUSED SHORT DIRECTION RECORD

(Speed, u, and v are given in cm/sec, Temperature in °C, Pressure in DB, and Corrected Salinity in ppt.)

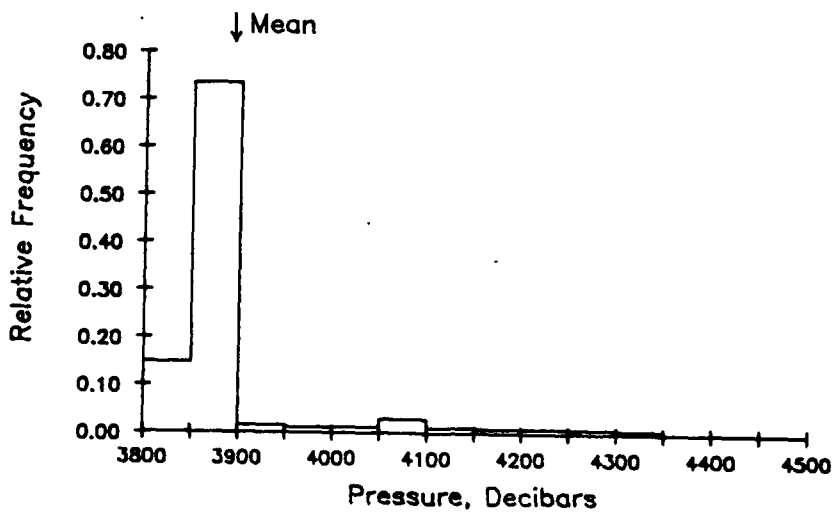
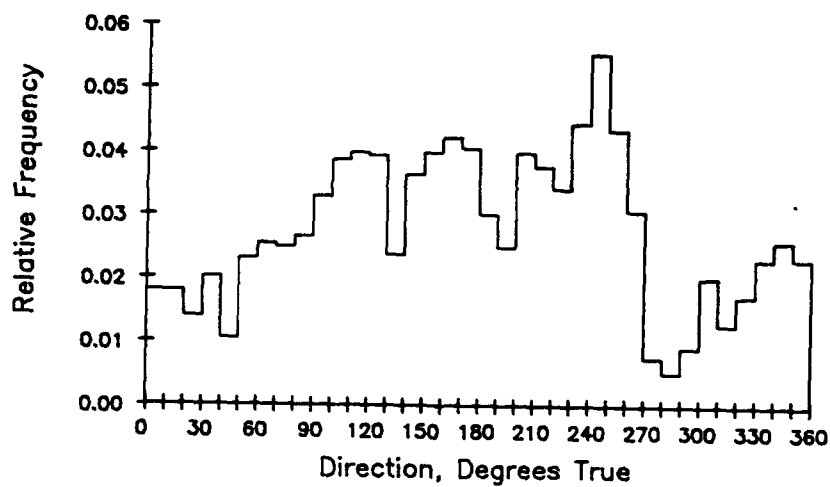
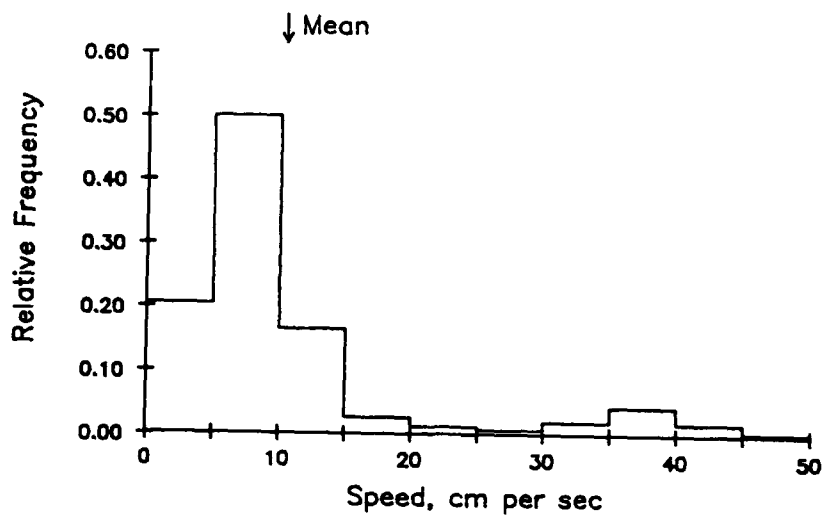
2805 METERS AT MOORING 11. TAPE 7213/11.



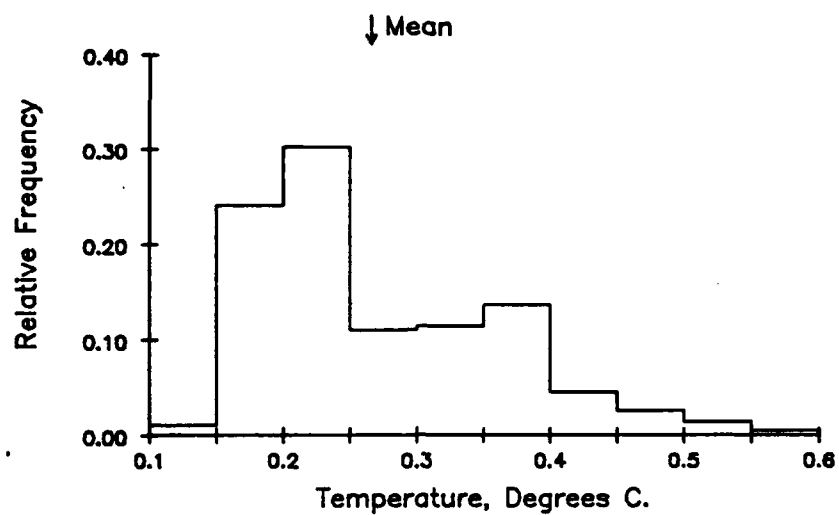
2805 METERS AT MOORING 11. TAPE 7213/11.



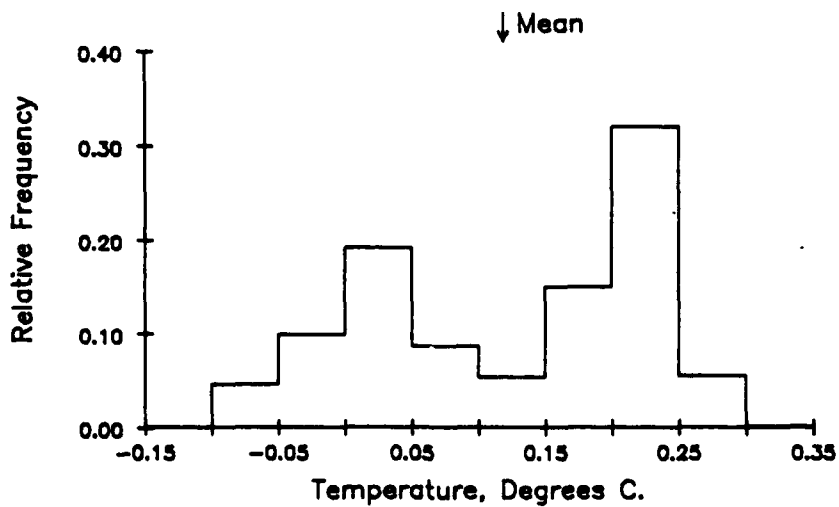
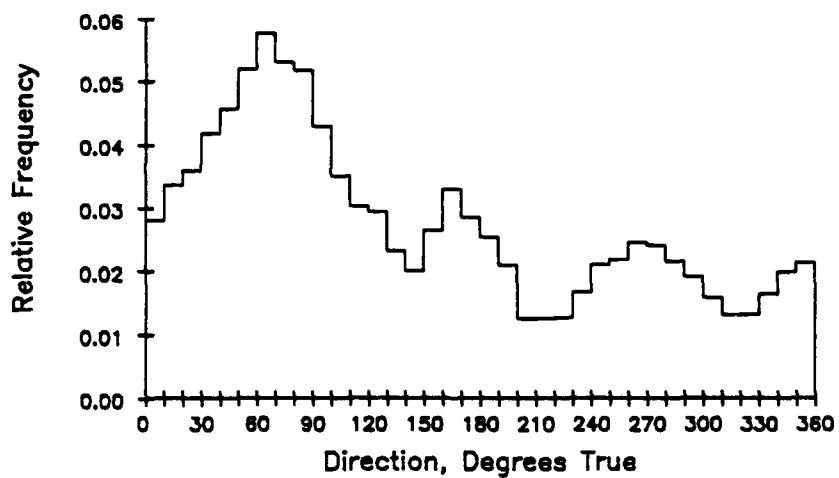
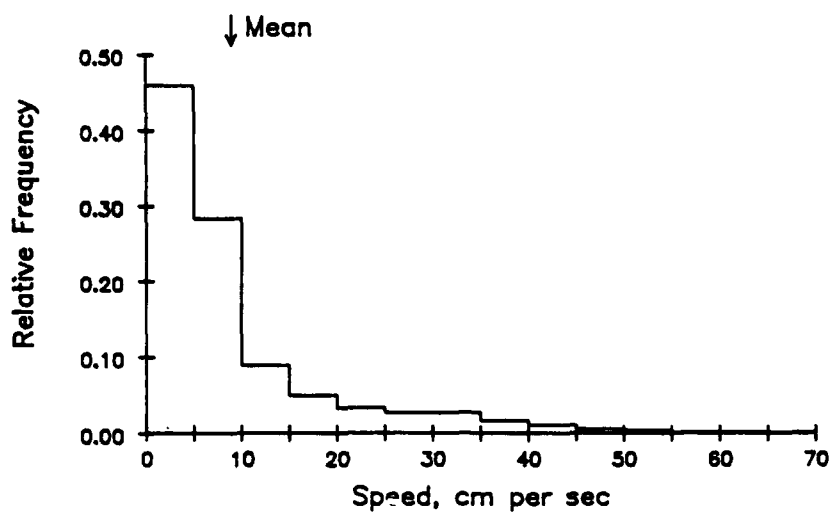
3750 METERS AT MOORING 11. TAPE 2280/37.



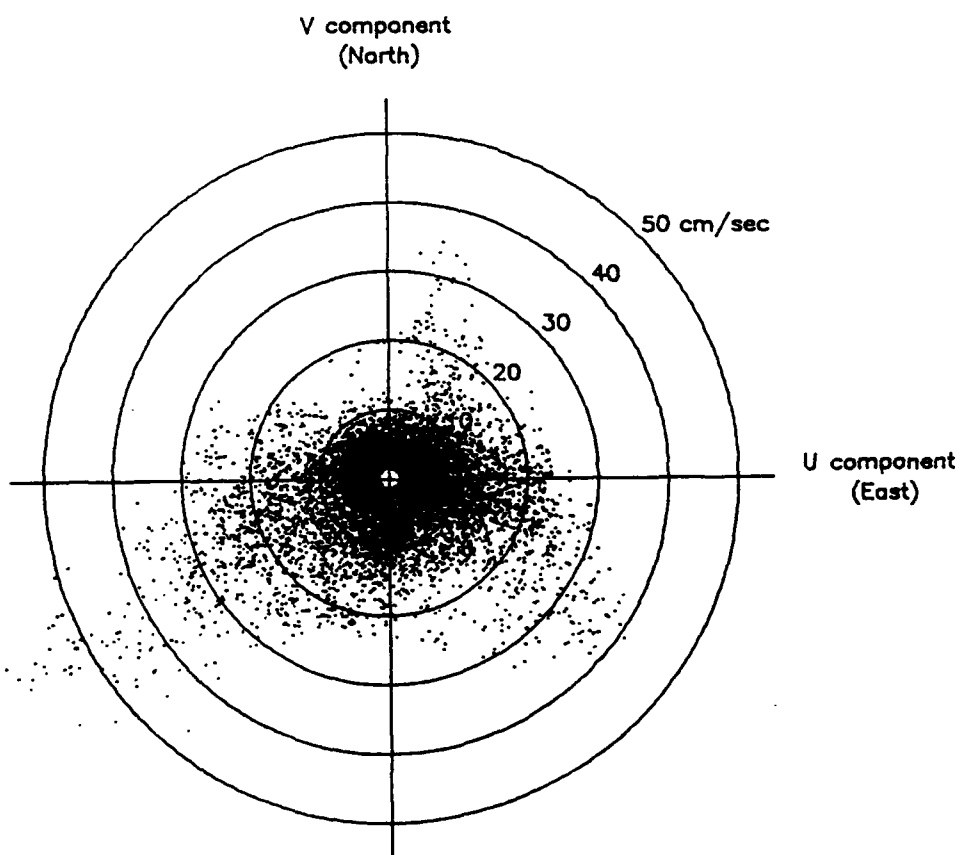
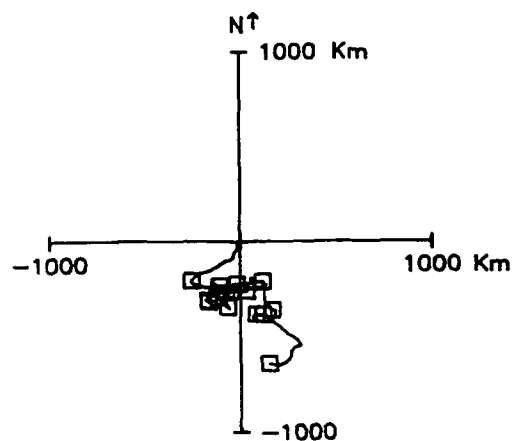
3750 METERS AT MOORING 11. TAPE 2280/37.



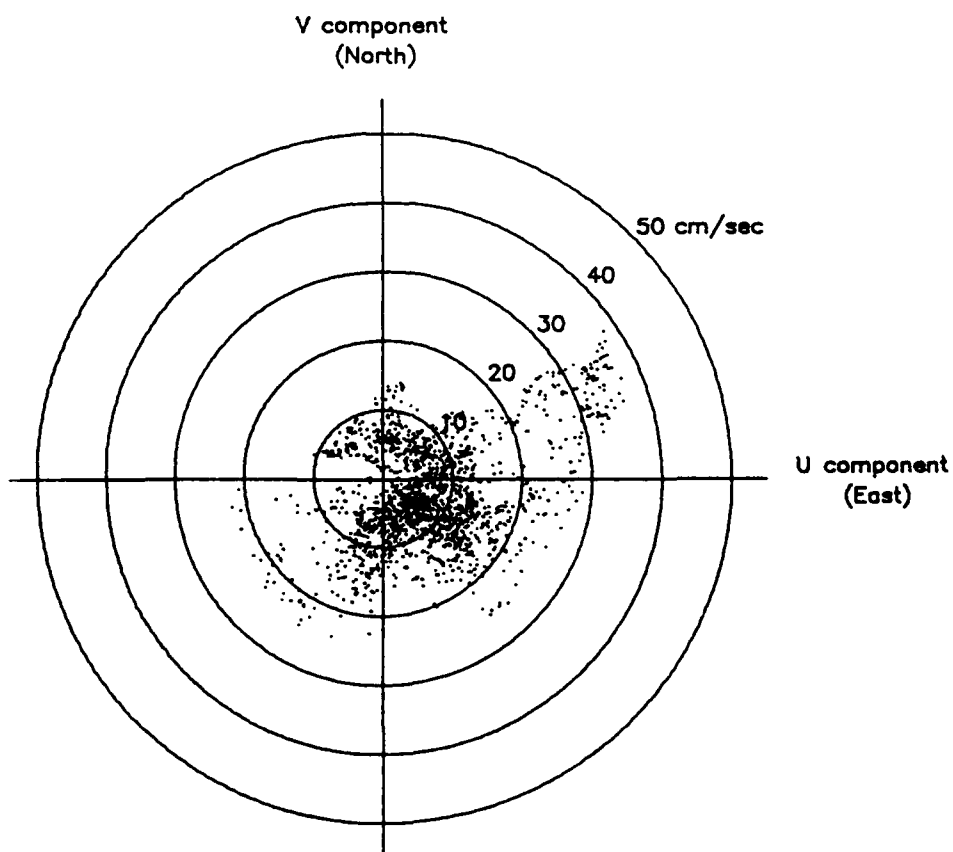
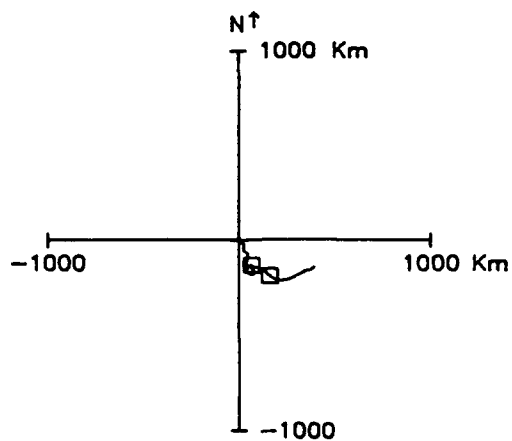
5100 METERS AT MOORING 11. TAPE 6730/13.



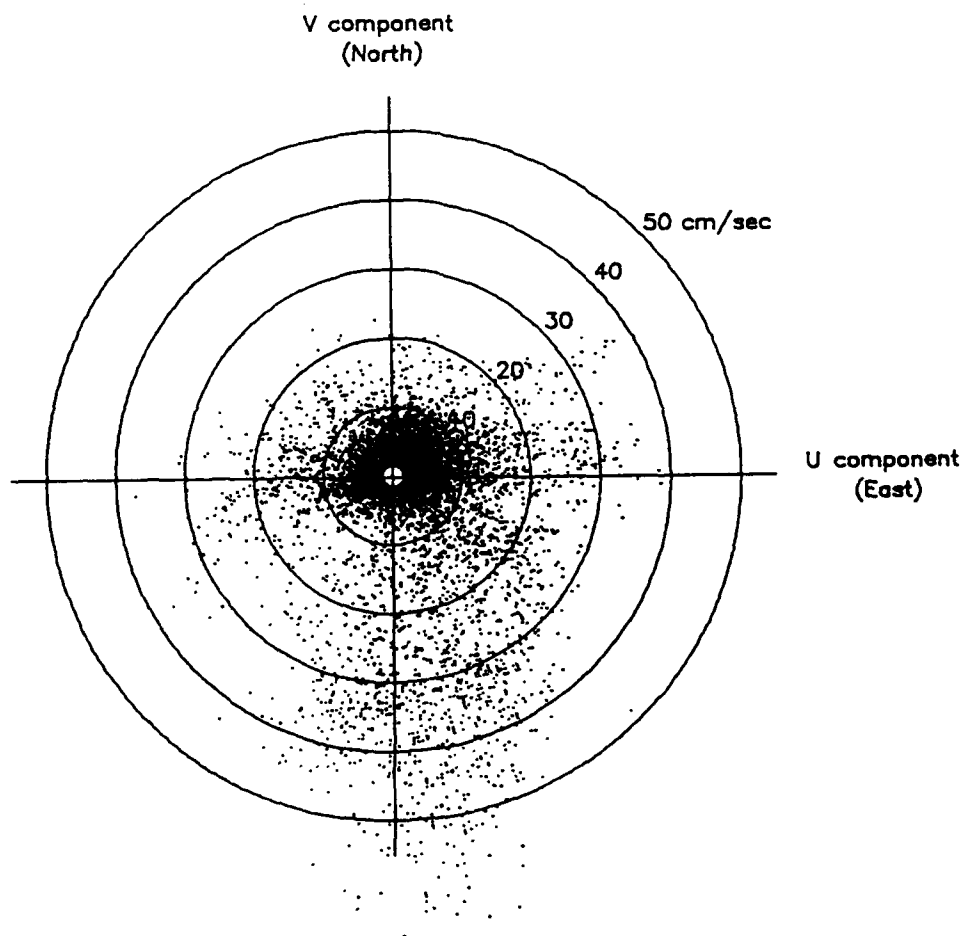
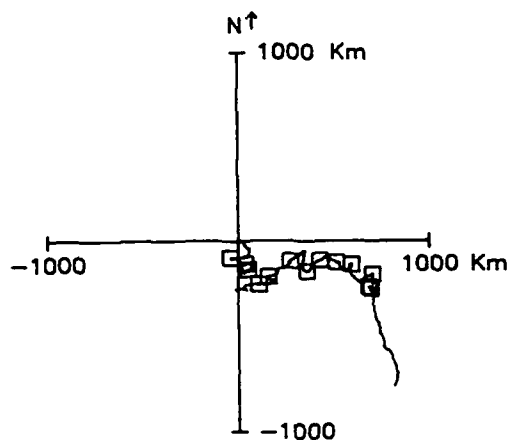
2805M AT MOORING 11. 4 FEB 86 - 1 APR 87. TAPE 7213/11.



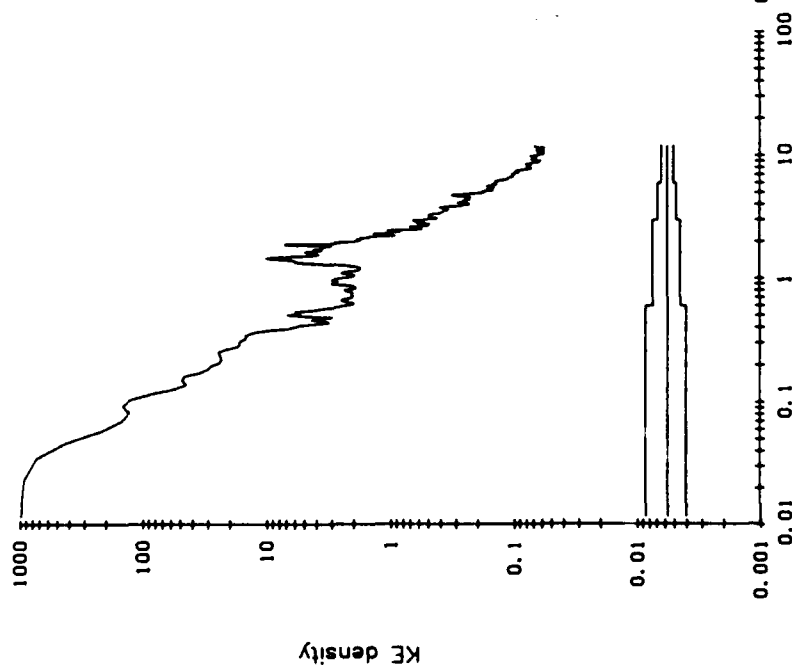
3750M AT MOORING 11. 4 FEB 86 - 17 APR 86. TAPE 2280/37.



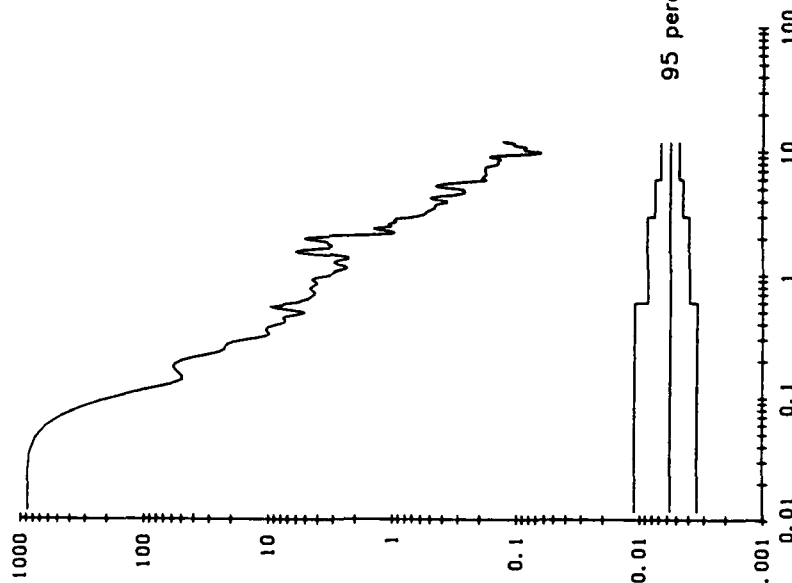
5100M AT MOORING 11. 4 FEB 86 - 20 MAR 87. TAPE 6730/13.



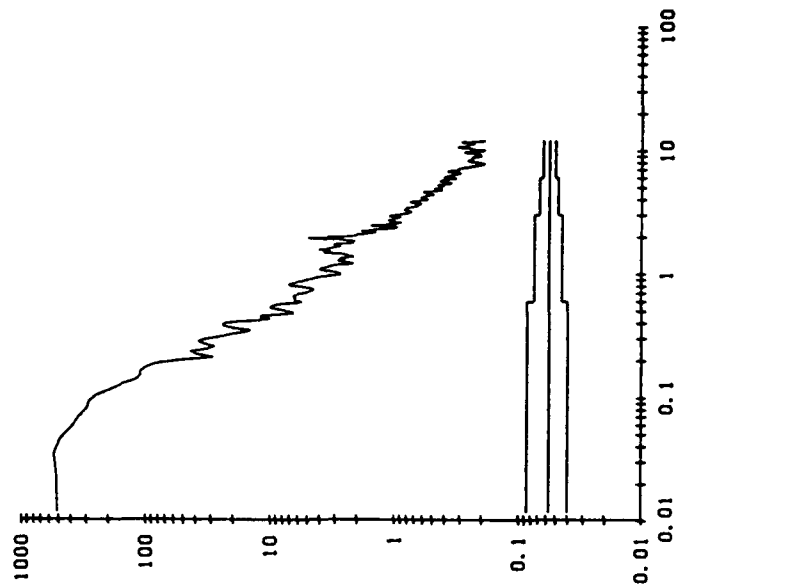
Unfiltered current. 2805 m at Mooring 11.
Both components



Unfiltered current. 3750 m at Mooring 11.
Both components

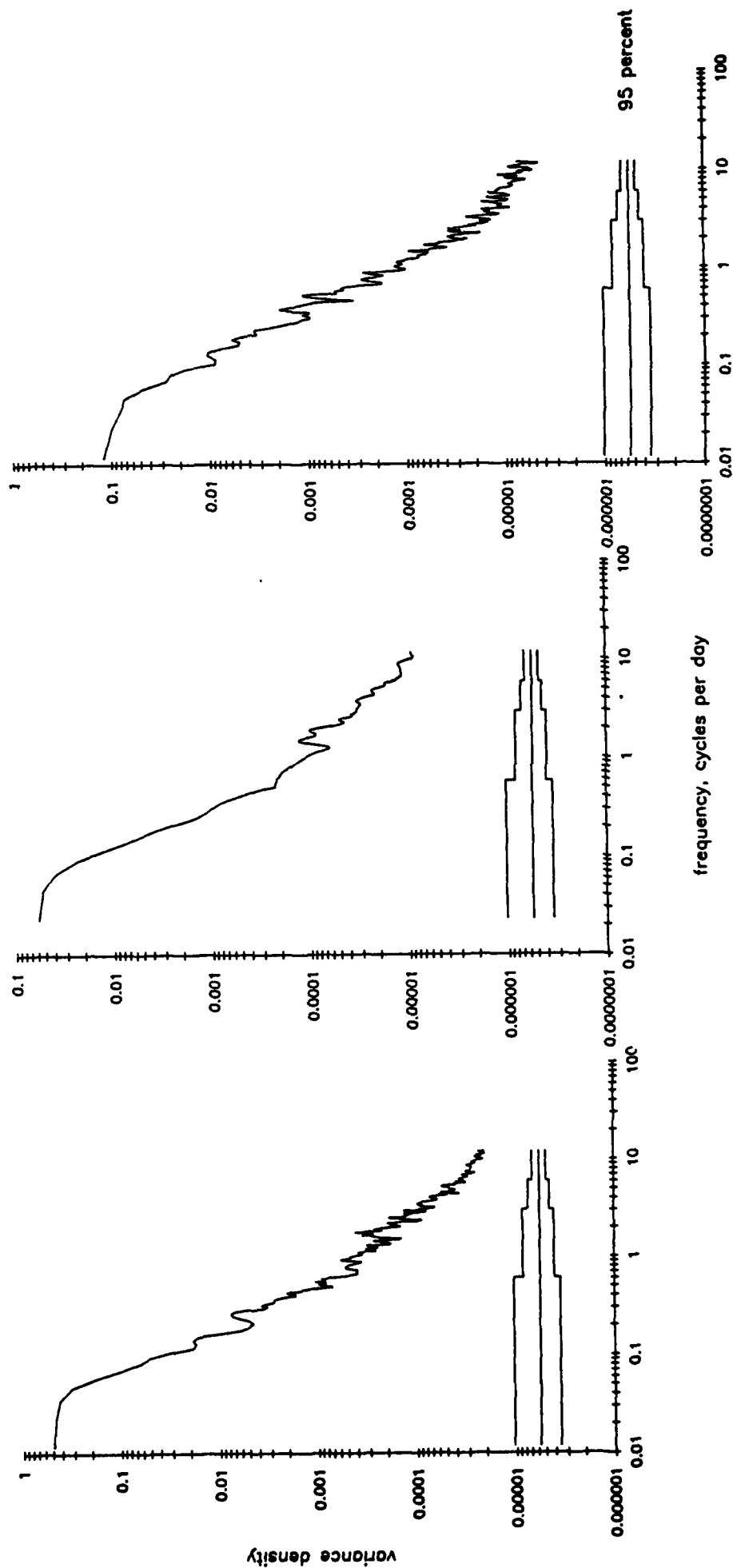


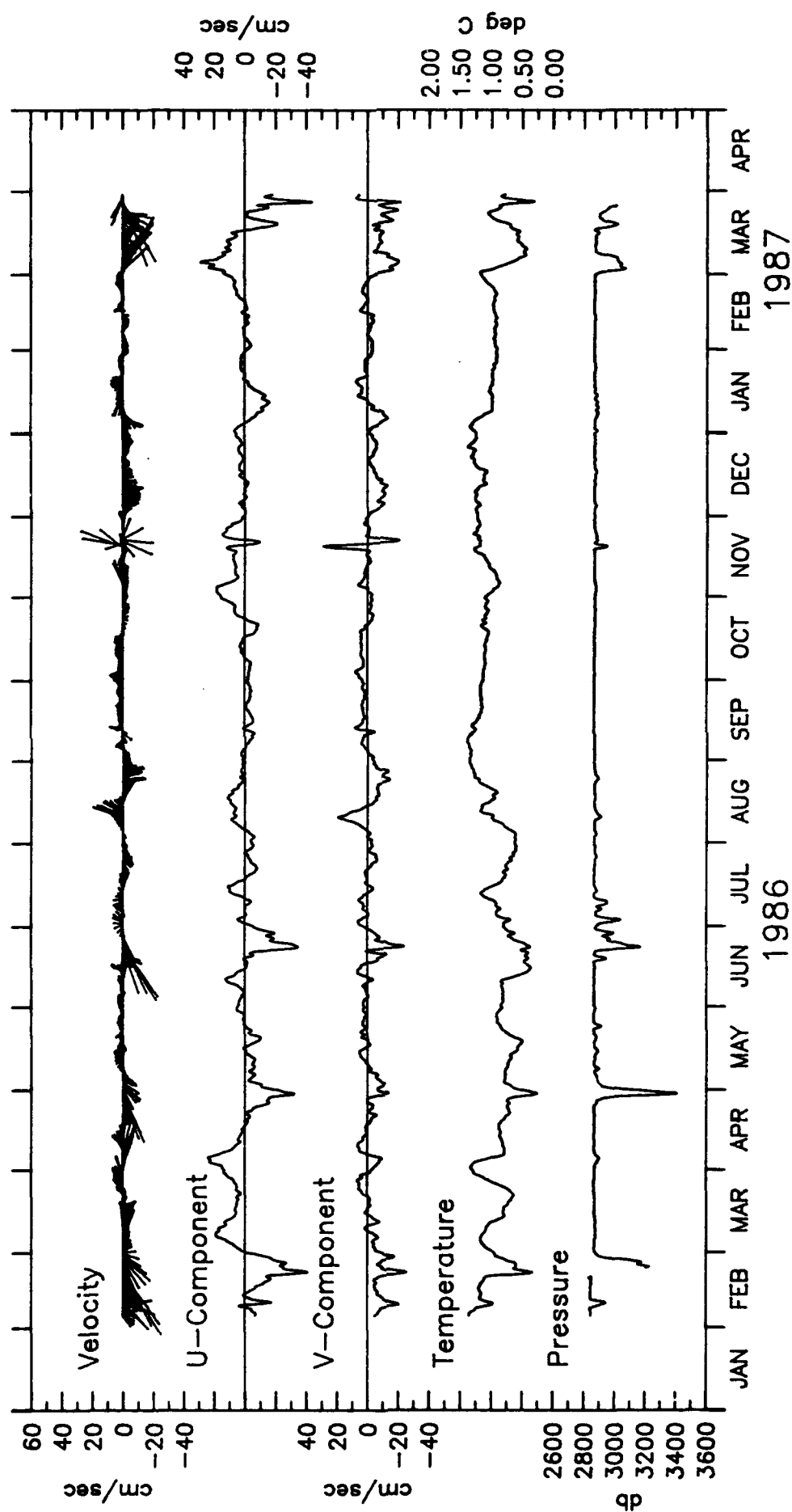
Unfiltered current. 5100 m at Mooring 11.
Both components



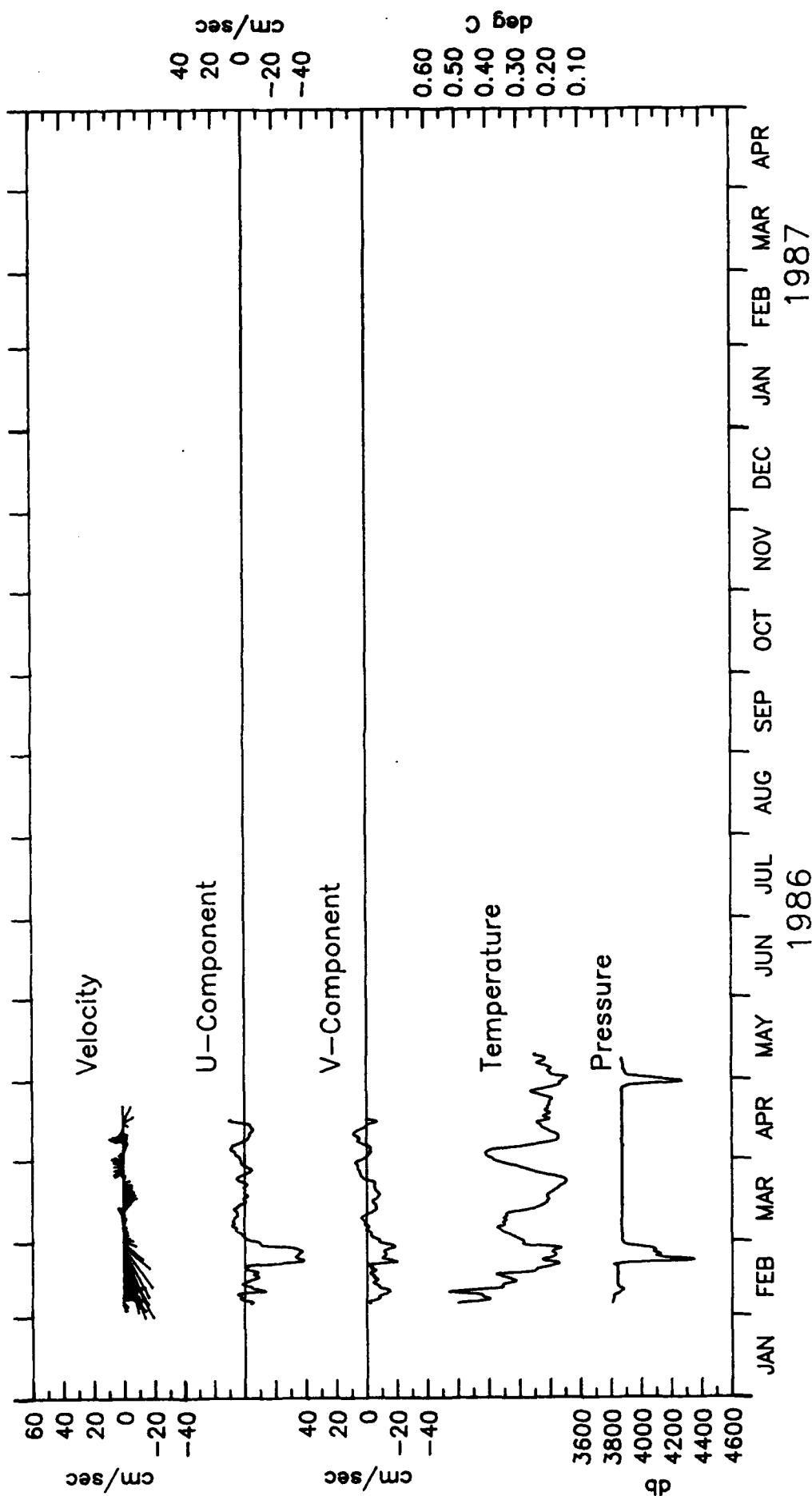
frequency, cycles per day

Unfiltered temperature. 2805 m at Mooring 11. Unfiltered temperature. 3750 m at Mooring 11. Unfiltered temperature. 5100 m at Mooring 11.

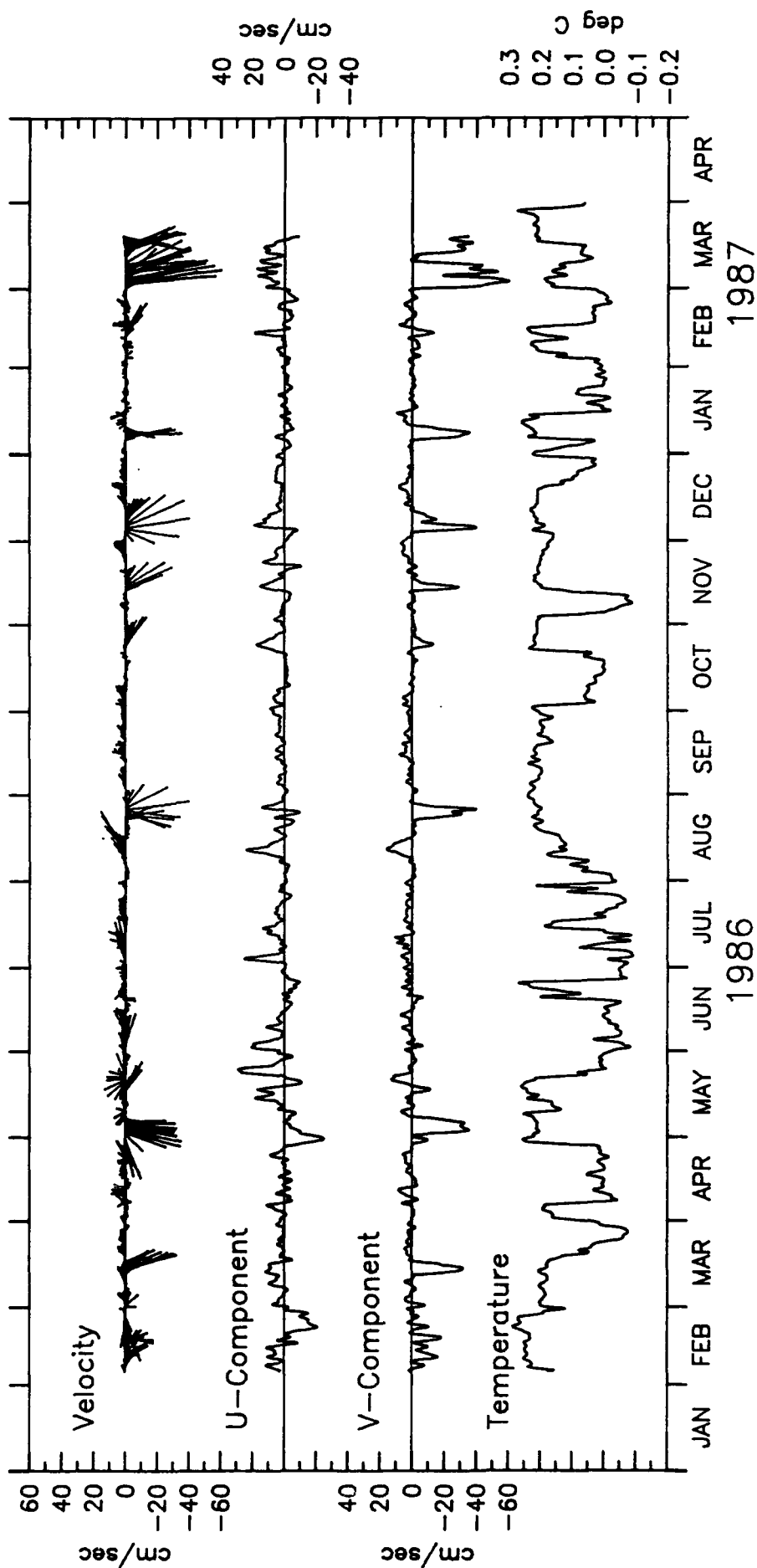




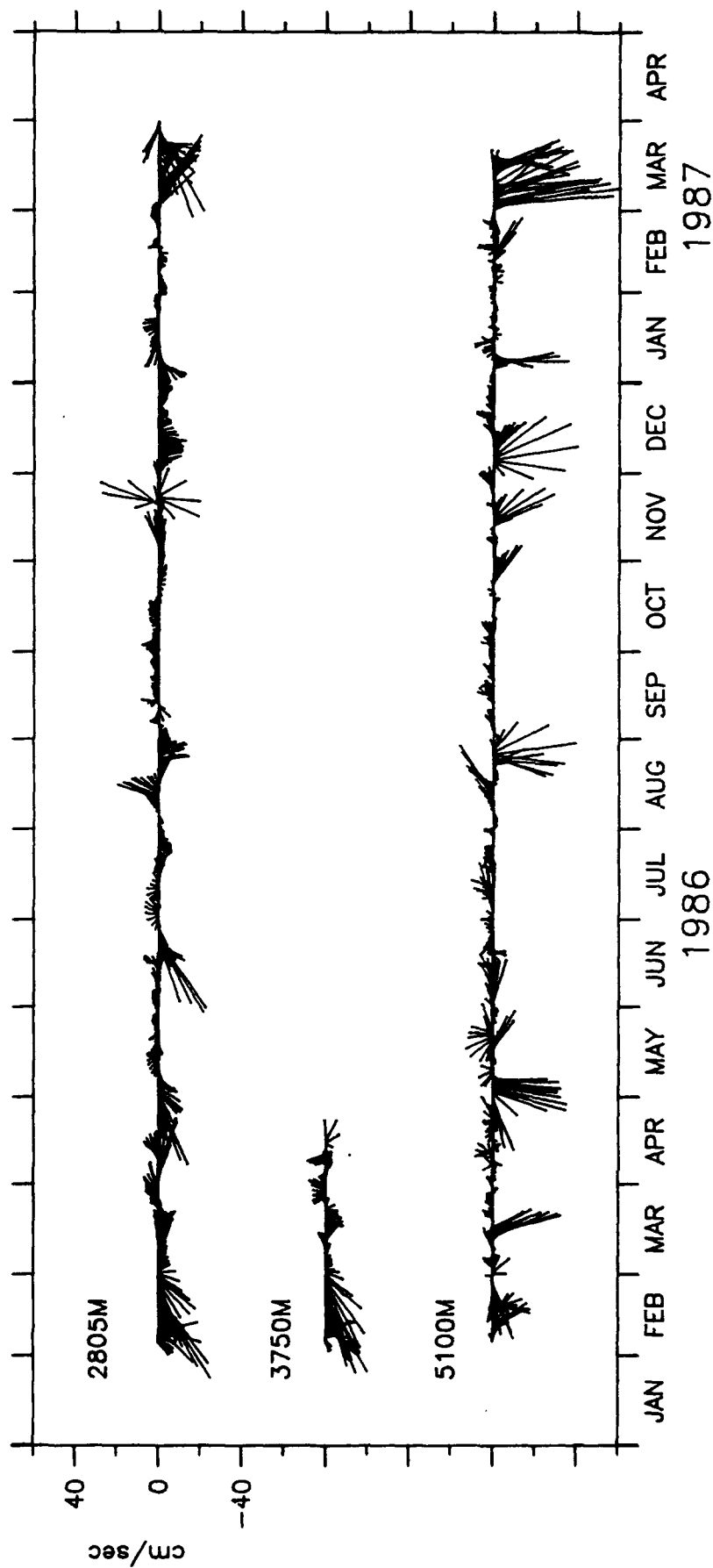
2805 M AT MOORING 11.



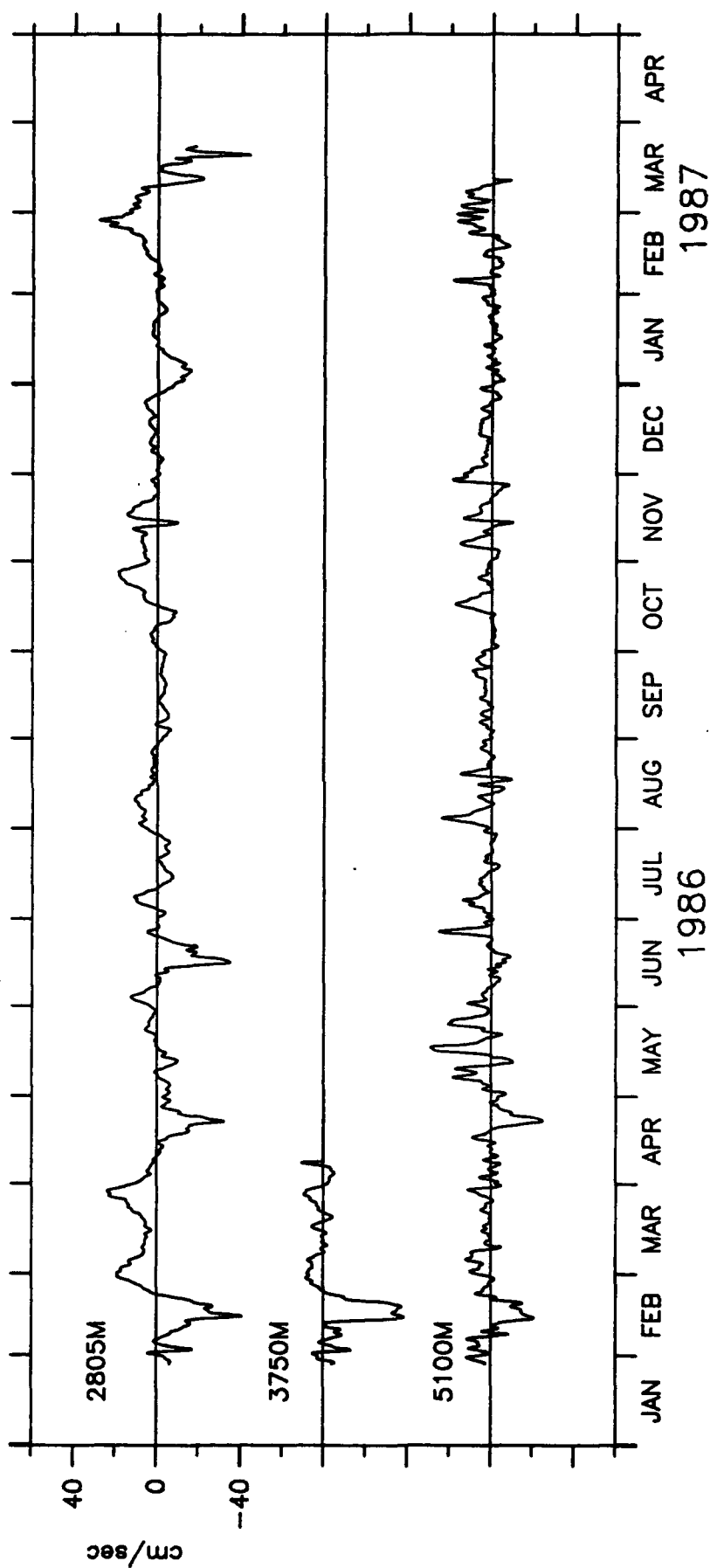
3750M AT MOORING 11.



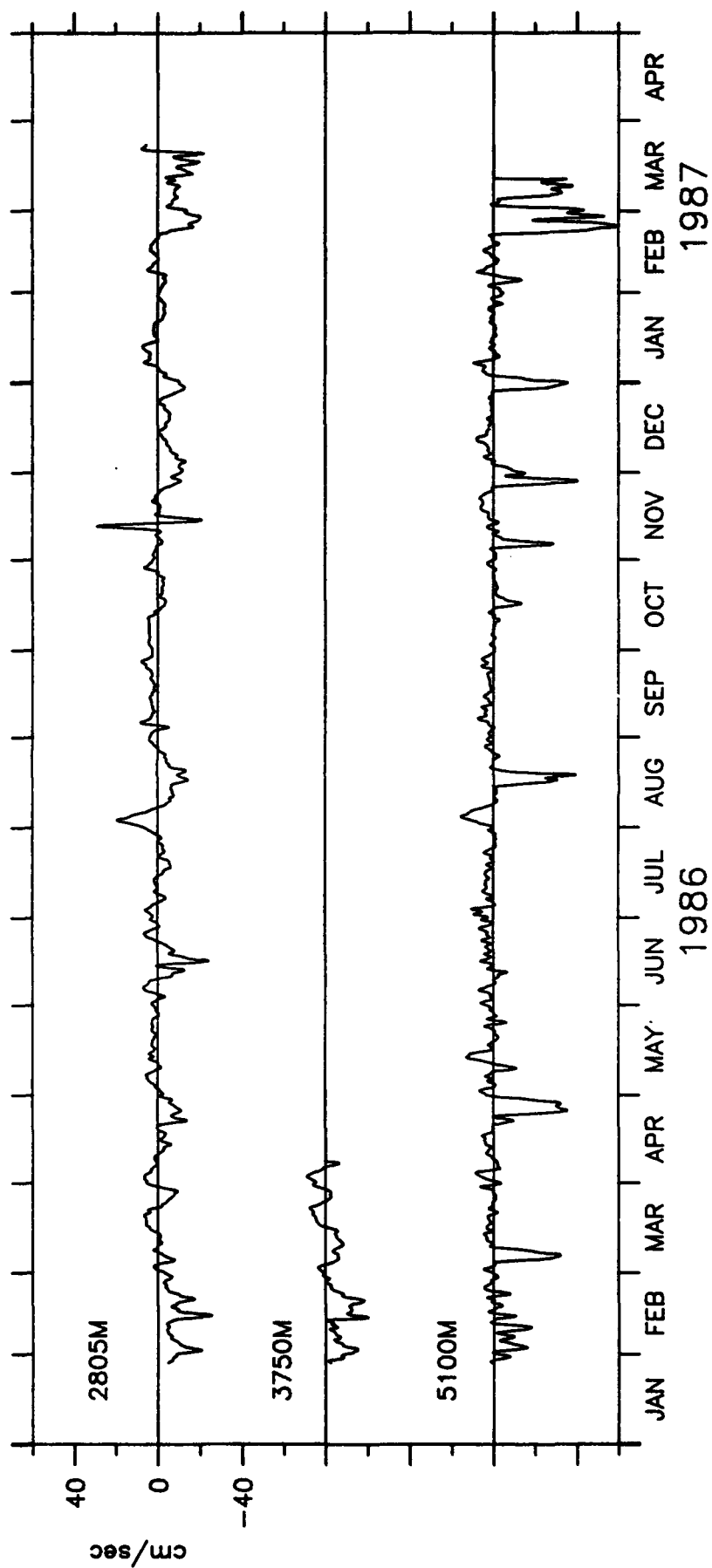
5100M AT MOORING 11.



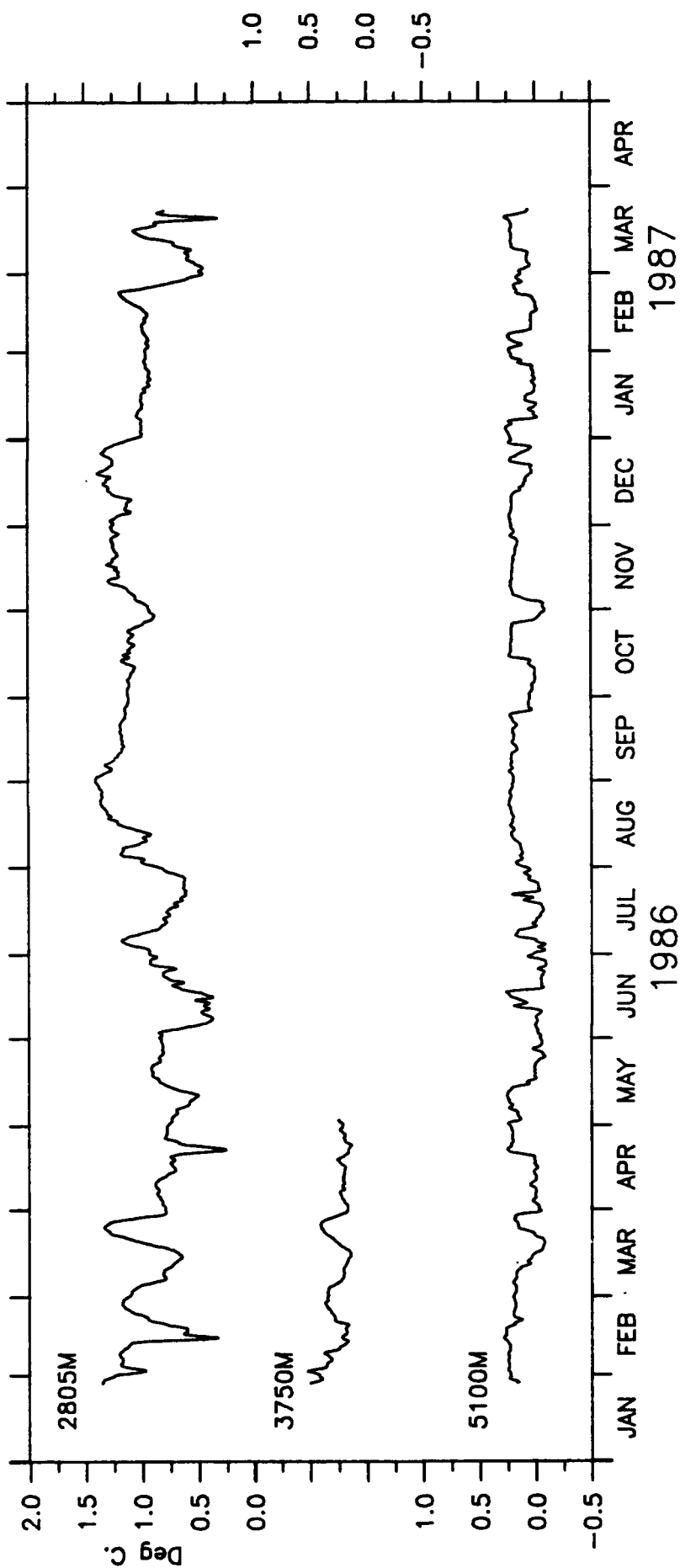
VELOCITY, MOORING 11.



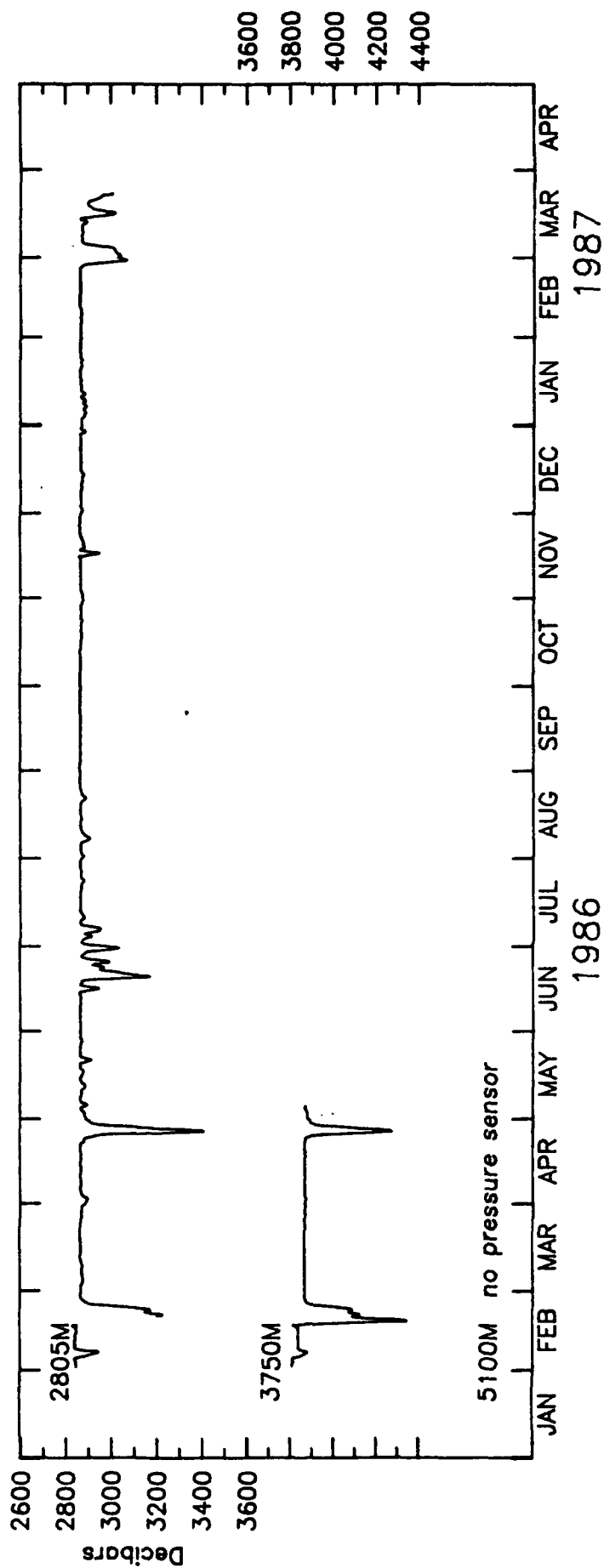
U-COMPONENT, MOORING 11.



V-COMPONENT, MOORING 11.



TEMPERATURE, MOORING 11.



PRESSURE MOORING 11.

MOORING 12

48°50.85'S, 35°09.30'W

1986

1987

JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR

955 M

S
O
T
P
Sci

1715 M

S
O
T
P
Sci

2490 M

S
O
T
P
Sci

3470 M

S
O
T

DATA RETURN FROM MOORING 12.

MOORING 12. UNFILTERED HOURLY DATA.

955M AT MOORING 12. 2200 4 FEB 86 - 1600 4 APR 87. TAPE 7214/12.

| | MEAN | SD | MIN | MAX | LENGTH | ENDS AT |
|---|--------|-------|--------|---------|--------|-----------------|
| S | 20.30 | 10.63 | 0.80 | 67.50 | 9798 | (1600 4 APR 87) |
| U | 1.75 | 19.61 | -50.20 | 59.30 | 9798 | (1600 4 APR 87) |
| V | -0.84 | 11.70 | -42.20 | 39.80 | 9798 | (1600 4 APR 87) |
| T | 2.39 | 0.19 | 1.73 | 2.76 | 10171 | (1600 4 APR 87) |
| P | 993.10 | 53.85 | 964.90 | 1549.80 | 10171 | (1600 4 APR 87) |

1715M AT MOORING 12. 2200 4 FEB 86 - 1600 4 APR 87. TAPE 4586/5.

| | | | | | | |
|---|---------|-------|---------|---------|-------|-----------------|
| S | 13.58 | 7.63 | 0.80 | 52.80 | 10171 | (1600 4 APR 87) |
| U | 0.18 | 13.28 | -34.20 | 45.30 | 10171 | (1600 4 APR 87) |
| V | -0.66 | 8.11 | -35.70 | 29.70 | 10171 | (1600 4 APR 87) |
| T | 2.12 | 0.32 | 1.20 | 2.88 | 10171 | (1600 4 APR 87) |
| P | 1757.45 | 37.79 | 1735.20 | 2142.30 | 10142 | (1600 4 APR 87) |

2490M AT MOORING 12. 2200 4 FEB 86 - 1600 4 APR 87. TAPE 7351/14.

| | | | | | | |
|---|---------|-------|---------|---------|-------|-----------------|
| S | 9.86 | 5.47 | 0.80 | 36.20 | 10171 | (1600 4 APR 87) |
| U | -1.03 | 9.50 | -33.10 | 33.90 | 10171 | (1600 4 APR 87) |
| V | -0.57 | 5.95 | -27.30 | 17.90 | 10171 | (1600 4 APR 87) |
| T | 1.31 | 0.30 | 0.60 | 2.13 | 10171 | (1600 4 APR 87) |
| P | 2536.76 | 26.87 | 2524.90 | 2799.90 | 10171 | (1600 4 APR 87) |

3470M AT MOORING 12. 2200 4 FEB 86 - 1600 4 APR 87. TAPE 6733/10.

| | | | | | | |
|---|-------|------|--------|-------|-------|-----------------|
| S | 9.10 | 6.19 | 0.80 | 52.60 | 10171 | (1600 4 APR 87) |
| U | -3.69 | 8.70 | -51.40 | 28.40 | 10171 | (1600 4 APR 87) |
| V | -0.32 | 5.63 | -38.80 | 21.90 | 10171 | (1600 4 APR 87) |
| T | 0.40 | 0.21 | 0.04 | 0.95 | 10171 | (1600 4 APR 87) |

(955 M) GAPS IN SPEED, U, AND V RECORDS LINES:
4068 - 4440 (0900 24 JUL 86 - 2100 8 AUG 86)

(1715 M) PRESSURE OFFSCALE, GAP IN RECORD LINES:
9523 - 9551 (1600 8 MAR 87 - 2000 9 MAR 87)

(3470 M) SPEED BRIDGED LINES:
280 - 366 (1300 16 FEB 86 - 0300 20 FEB 86)

(Speed, u, and v are given in cm/sec, Temperature in °C, Pressure in DB).

MOORING 12. LLP FILTERED 6 HOURLY DATA

955M AT MOORING 12. 0000 6 FEB 86 - 1200 3 APR 87. TAPE 7214/12.

| | MEAN | SD | MIN | MAX | LENGTH | ENDS AT |
|---|--------|-------|--------|---------|--------|-----------------|
| U | 1.87 | 19.35 | -43.29 | 56.41 | 1617 | (1200 3 APR 87) |
| V | -0.87 | 11.29 | -38.05 | 36.50 | 1617 | (1200 3 APR 87) |
| T | 2.39 | 0.19 | 1.85 | 2.69 | 1687 | (1200 3 APR 87) |
| P | 993.10 | 53.46 | 966.40 | 1535.84 | 1687 | (1200 3 APR 87) |
| S | 34.73 | 2.14 | 34.57 | 34.87 | 1687 | (1200 3 APR 87) |

1715M AT MOORING 12. 0000 6 FEB 86 - 1200 3 APR 87 TAPE 4586/5.

| | | | | | | |
|---|---------|-------|---------|---------|------|-----------------|
| U | 0.25 | 13.01 | -28.85 | 39.64 | 1687 | (1200 3 APR 87) |
| V | -0.66 | 7.69 | -30.87 | 24.87 | 1687 | (1200 3 APR 87) |
| T | 2.12 | 0.31 | 1.28 | 2.70 | 1687 | (1200 3 APR 87) |
| P | 1756.05 | 31.89 | 1735.48 | 1980.54 | 1674 | (1200 3 APR 87) |
| S | 34.79 | 2.69 | 34.71 | 34.84 | 1636 | (1200 3 APR 87) |

2490M AT MOORING 12. 0000 6 FEB 86 - 1200 3 APR 87 TAPE 7351/14.

| | | | | | | |
|---|---------|-------|---------|---------|------|-----------------|
| U | -0.99 | 9.12 | -25.37 | 26.55 | 1687 | (1200 3 APR 87) |
| V | -0.55 | 5.26 | -22.71 | 11.48 | 1687 | (1200 3 APR 87) |
| T | 1.31 | 0.29 | 0.65 | 2.02 | 1687 | (1200 3 APR 87) |
| P | 2536.75 | 26.76 | 2523.18 | 2798.06 | 1687 | (1200 3 APR 87) |
| S | 34.74 | 2.71 | 34.69 | 34.80 | 1687 | (1200 3 APR 87) |

3470M AT MOORING 12. 0000 6 FEB 86 - 1200 3 APR 87 TAPE 6733/10.

| | | | | | | |
|---|-------|------|--------|-------|------|-----------------|
| U | -3.63 | 8.04 | -39.78 | 22.31 | 1687 | (1200 3 APR 87) |
| V | -0.33 | 4.52 | -33.02 | 10.34 | 1687 | (1200 3 APR 87) |
| T | 0.40 | 0.20 | 0.04 | 0.90 | 1687 | (1200 3 APR 87) |

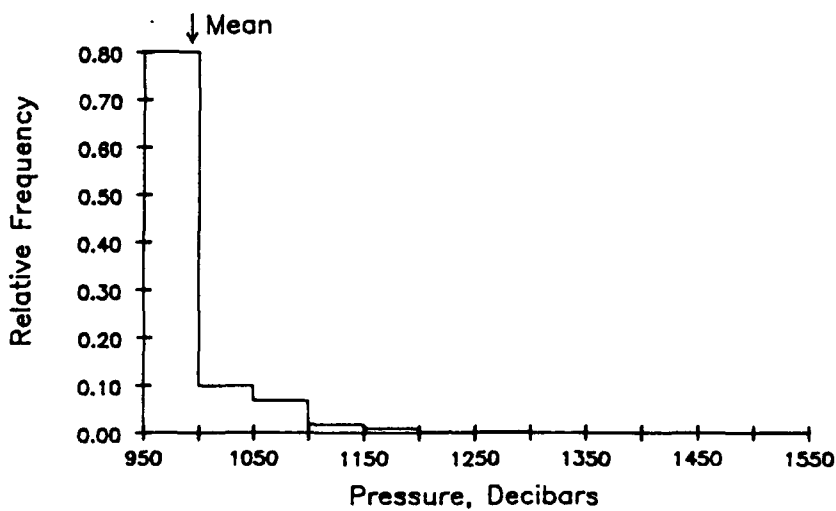
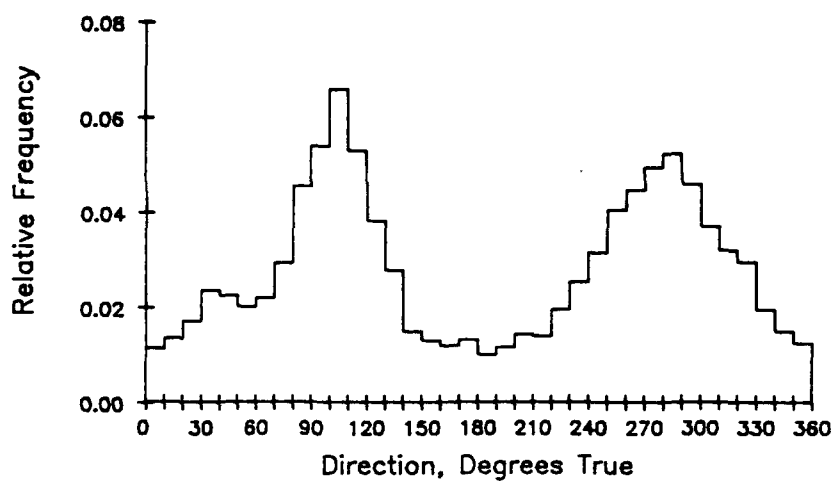
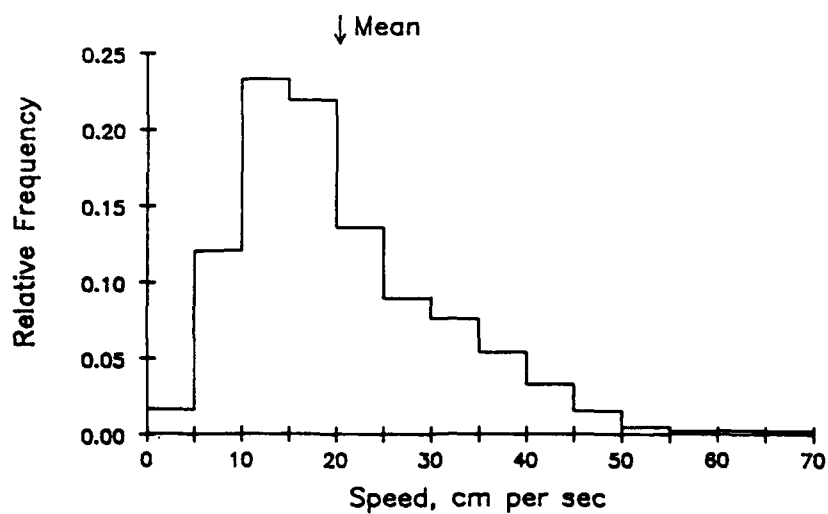
(955 M) U & V GAPS IN UNFILTERED RECORD, LLP LINES:
671 - 740 (1200 23 JUL 86 - 1800 9 AUG 87)

(1715 M) PRESSURE OFFSCALE, GAP IN UNFILTERED RECORD, LLP LINES:
1580 - 1592 (1800 7 MAR 87 - 1800 10 MAR 87)
GAPS IN SALINITY RECORD, BAD VALUES REMOVED

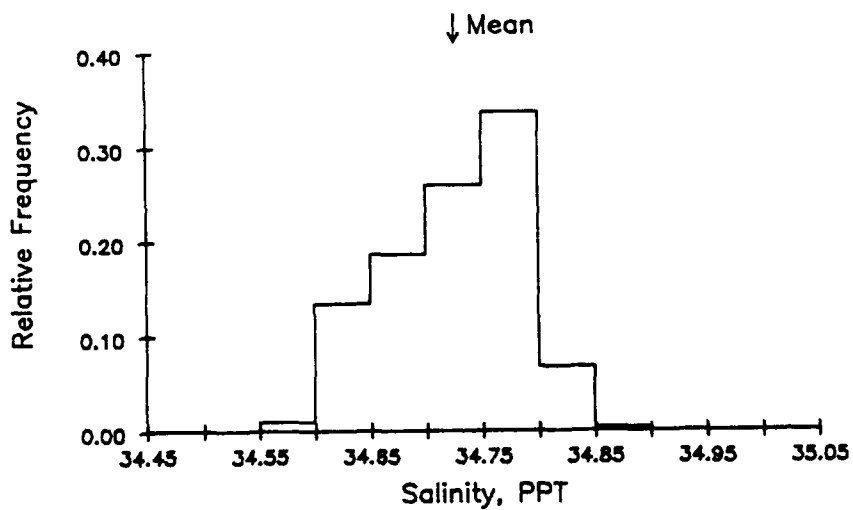
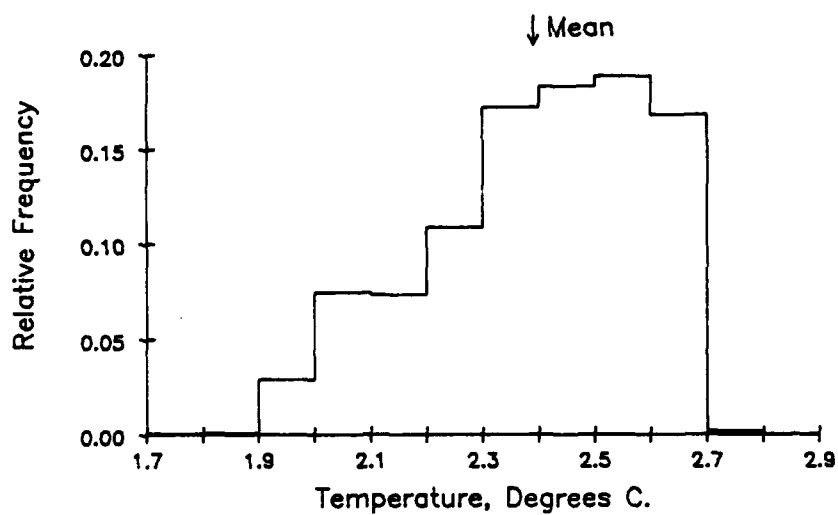
(2490 M) SPEED RECORD BRIDGED IN UNFILTERED RECORD.

(Speed, u, and v are given in cm/sec, Temperature in °C, Pressure in DB, and Corrected Salinity in ppt.)

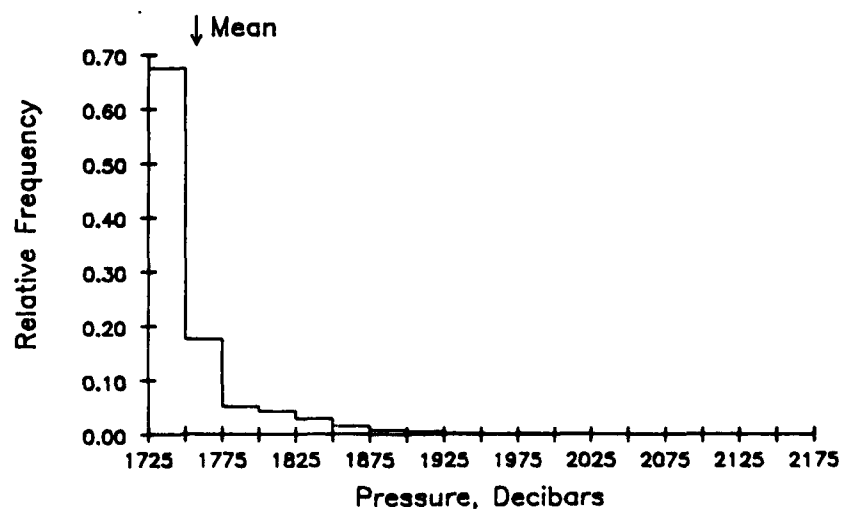
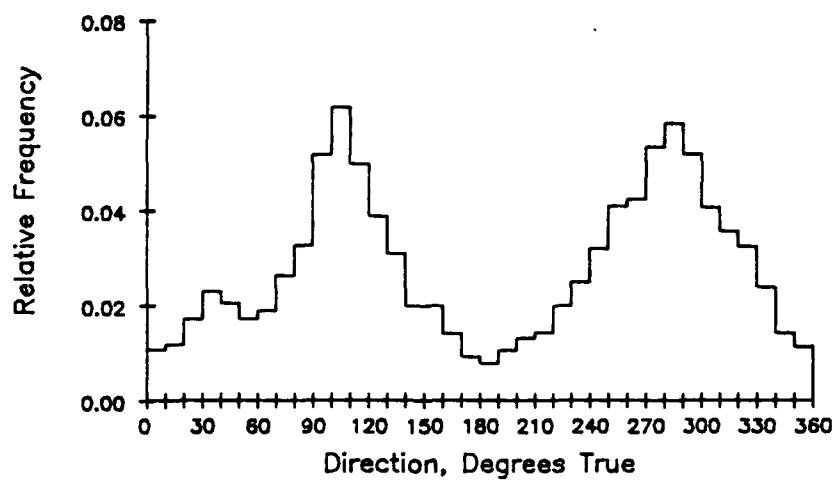
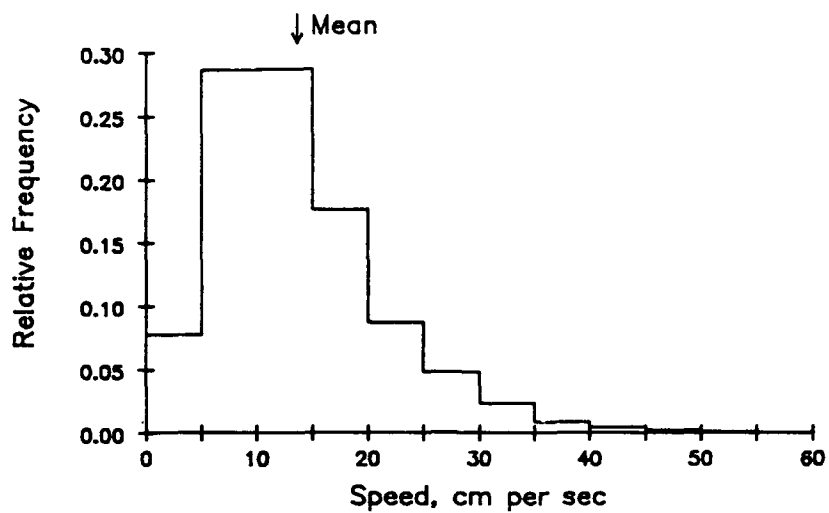
955 METERS AT MOORING 12. TAPE 7214/12.



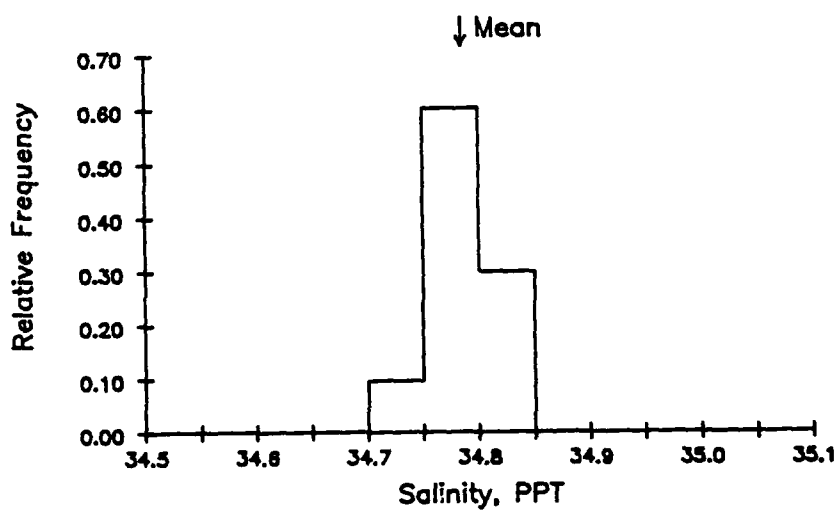
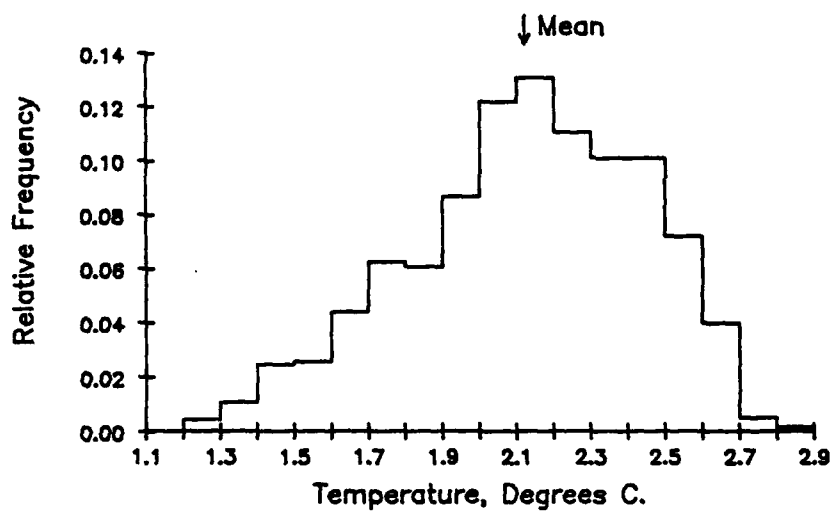
955 METERS AT MOORING 12. TAPE 7214/12.



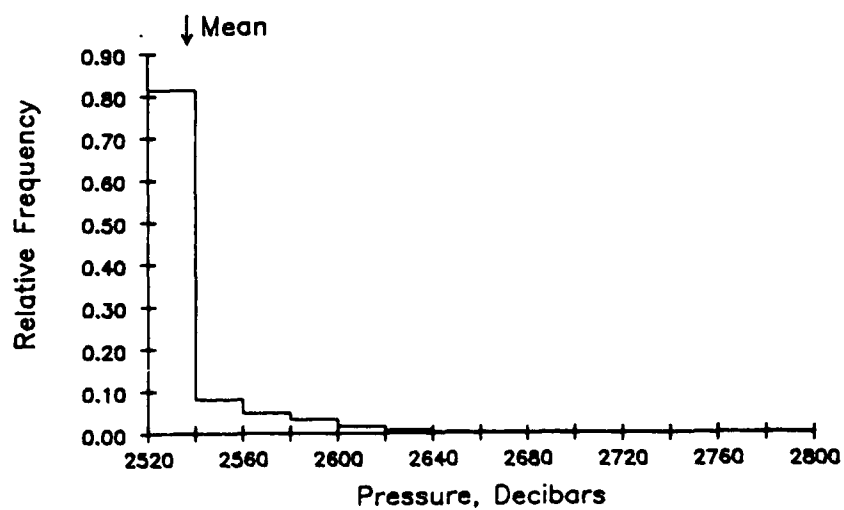
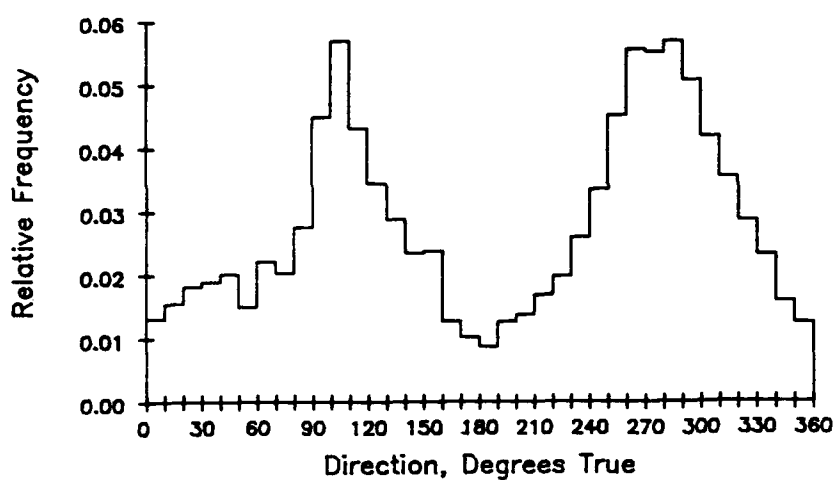
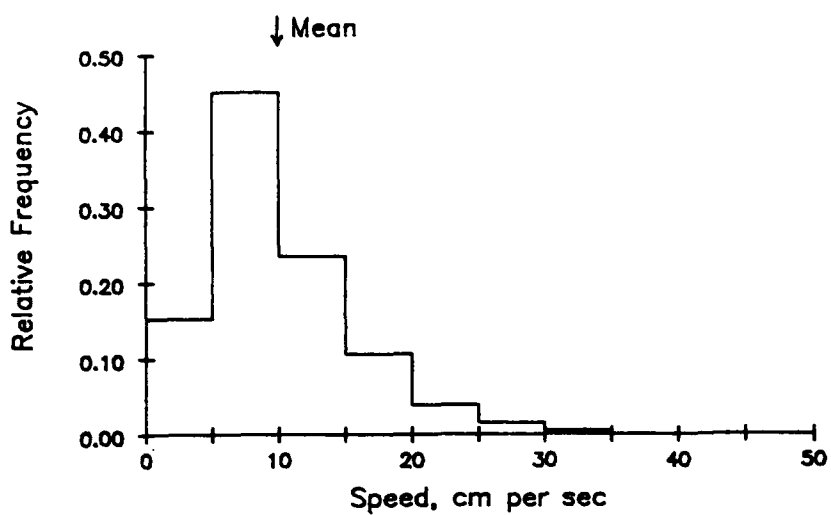
1715 METERS AT MOORING 12. TAPE 4586/5.



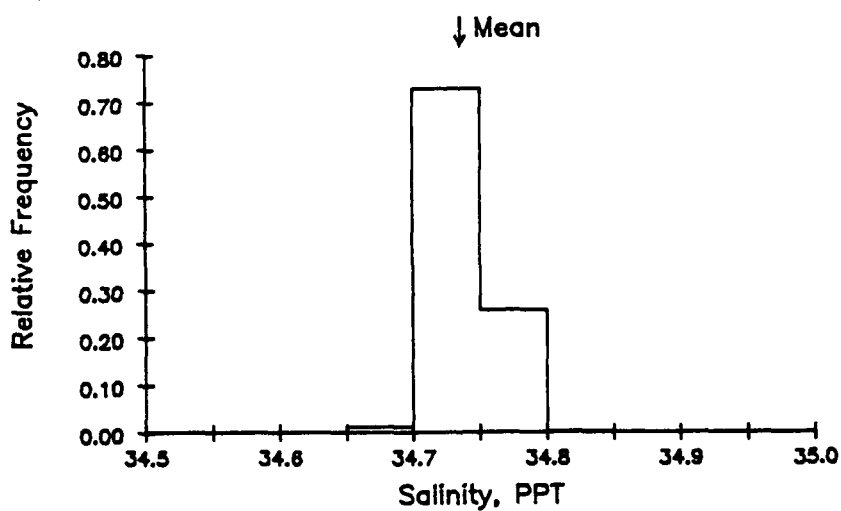
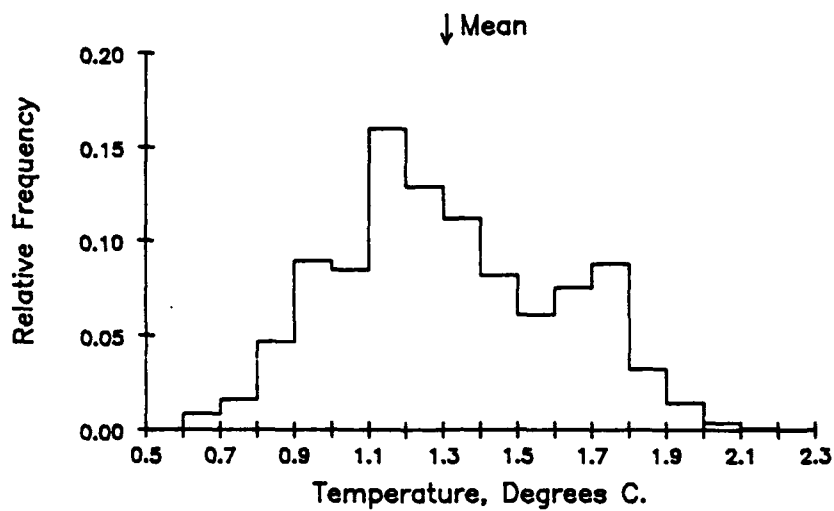
1715 METERS AT MOORING 12. TAPE 4586/5.



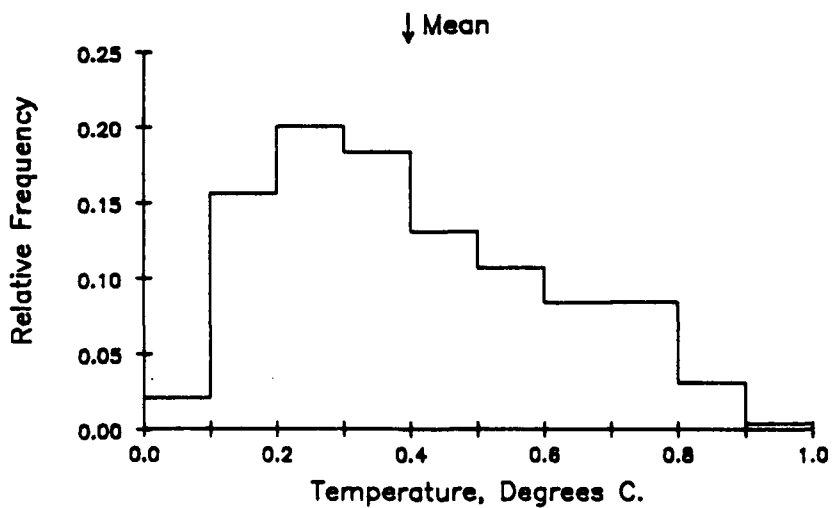
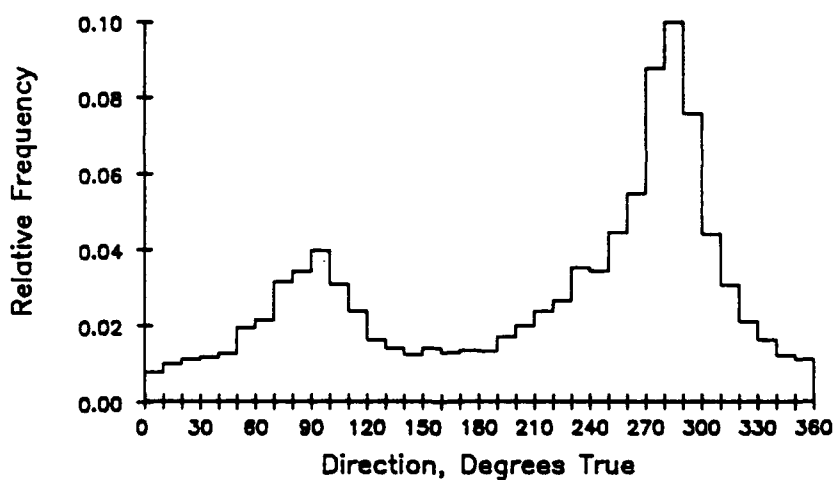
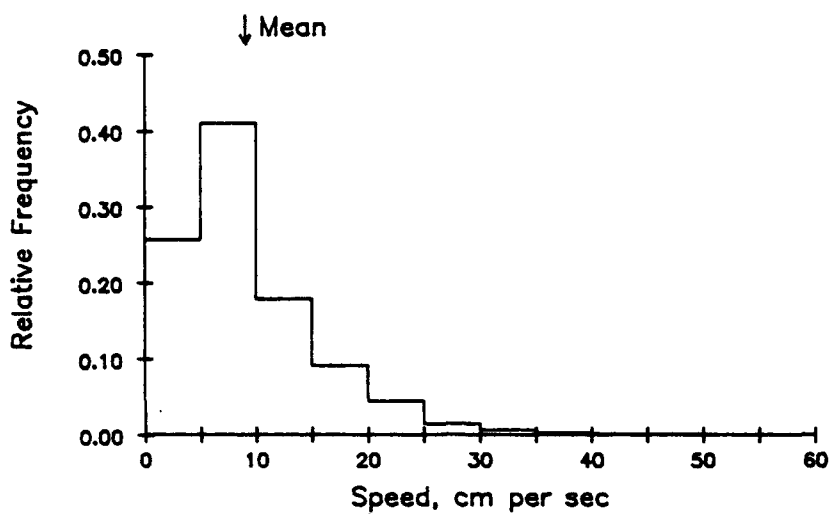
2490 METERS AT MOORING 12. TAPE 7351/14.



2490 METERS AT MOORING 12. TAPE 7351/14.

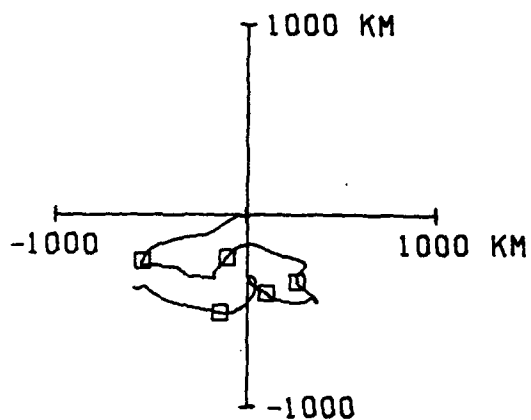


3470 METERS AT MOORING 12. TAPE 6733/10.

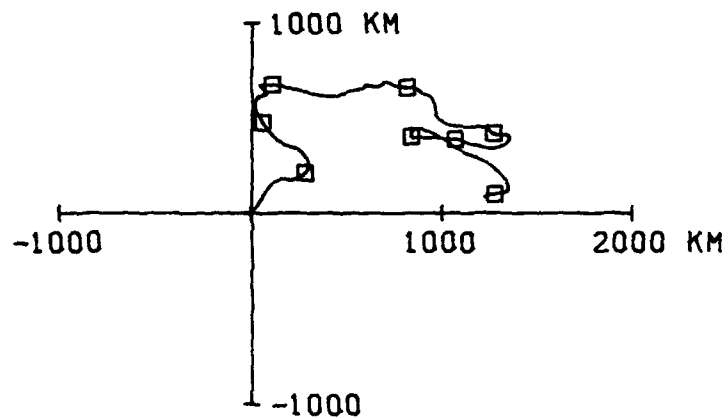


955M AT MOORING 12. 4 FEB 86 - 4 APR 87. TAPE 7214/12.

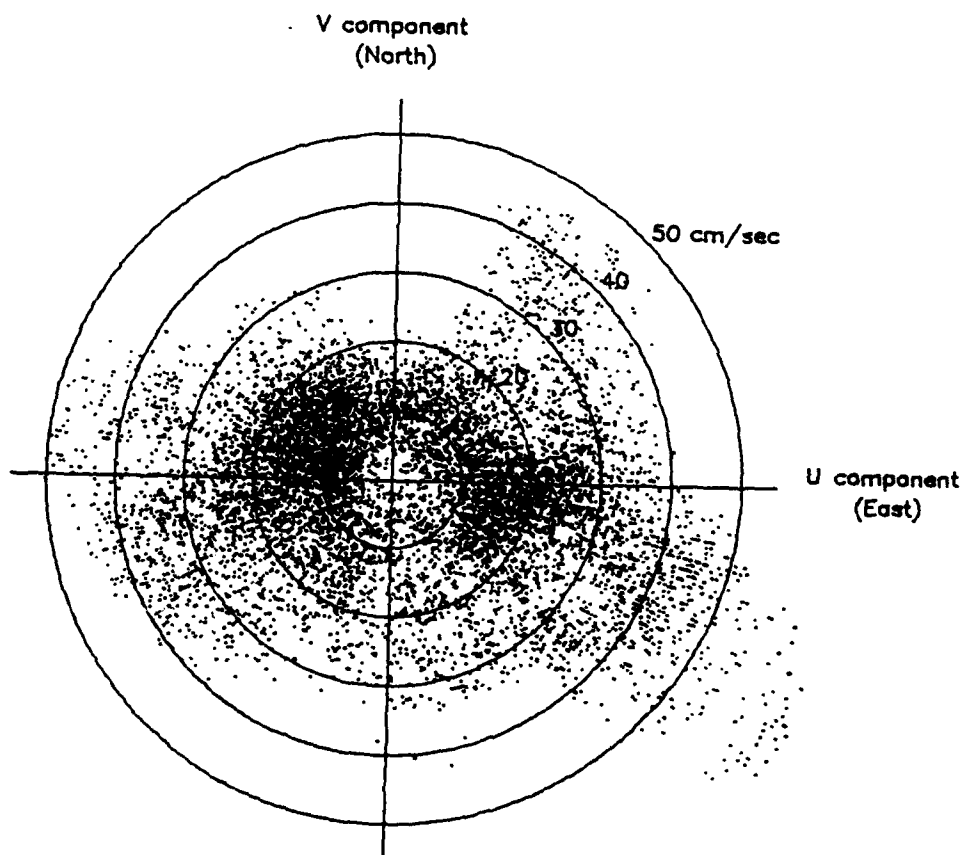
N↑



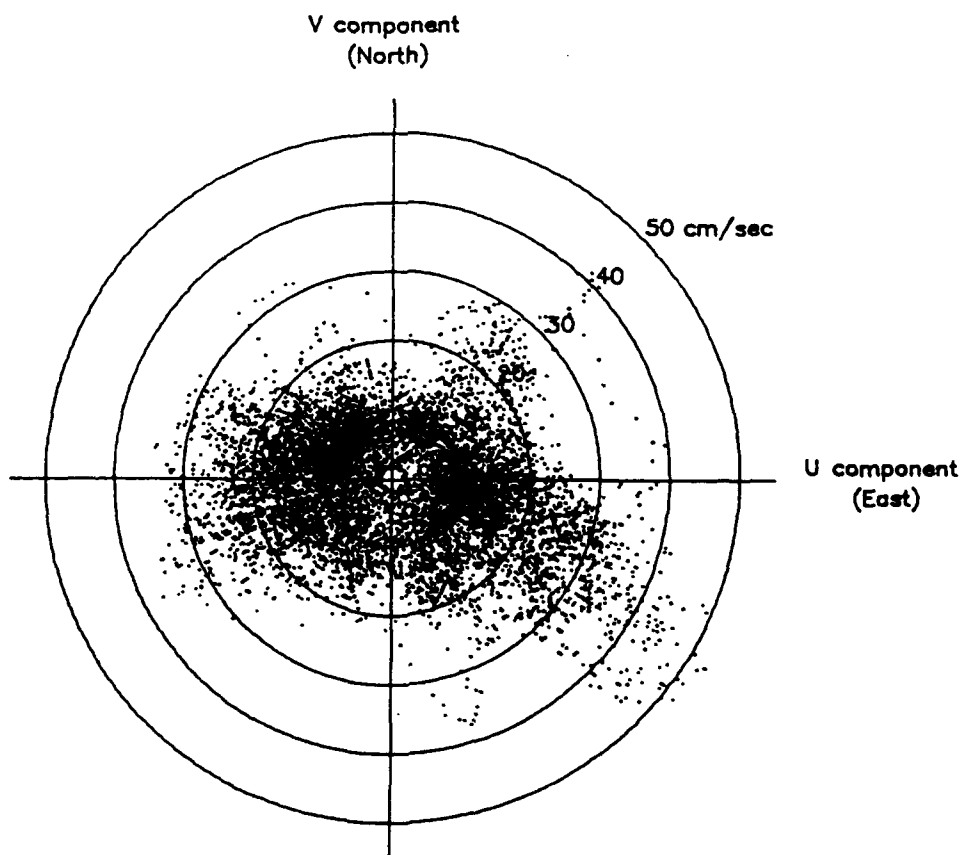
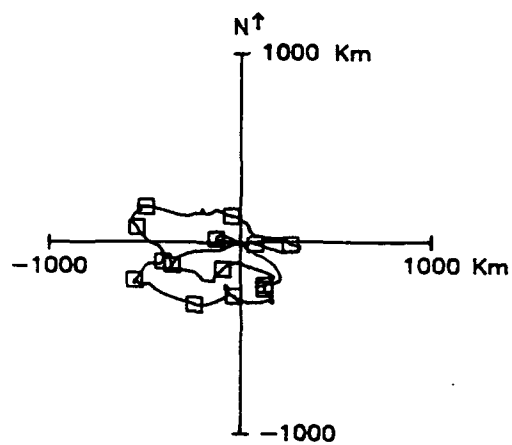
4 FEB 86 - 24 JUL 86.



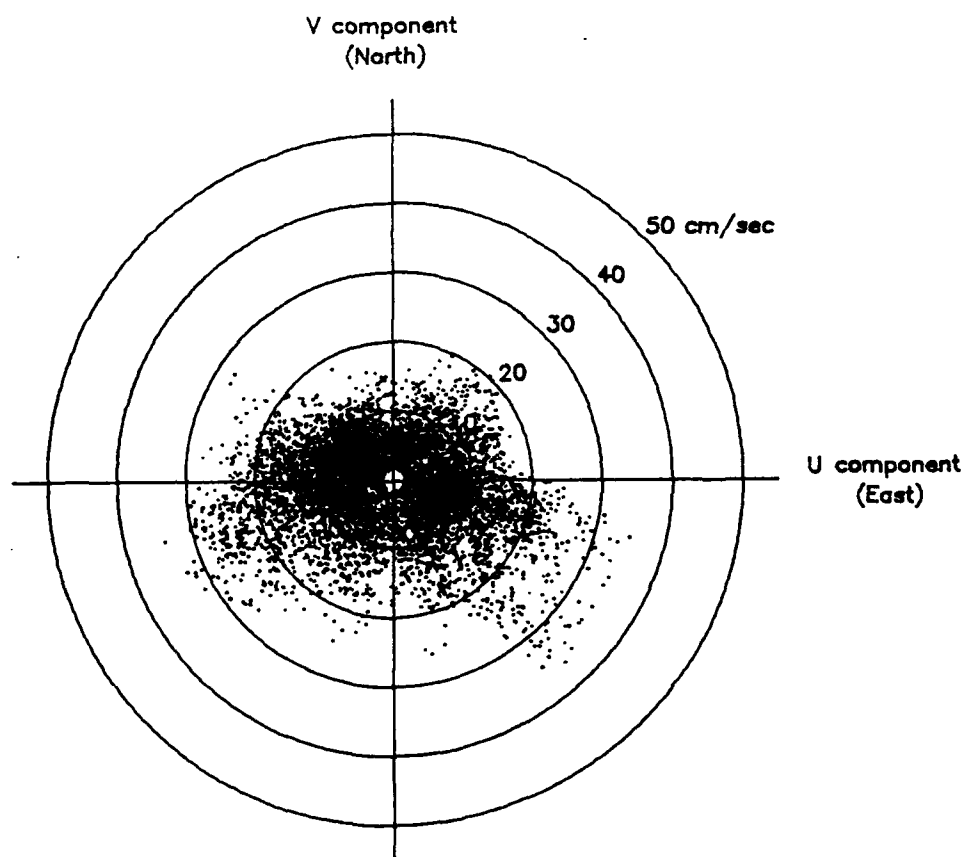
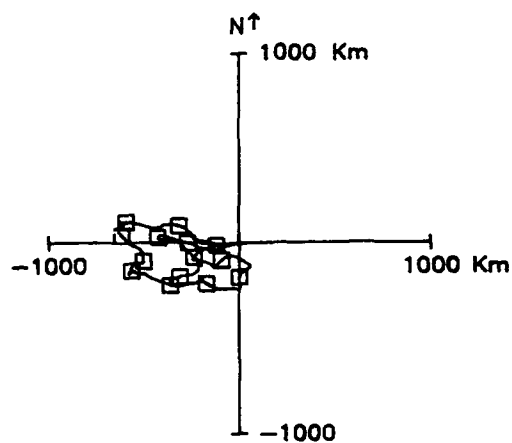
8 AUG 86 - 4 APR 87.



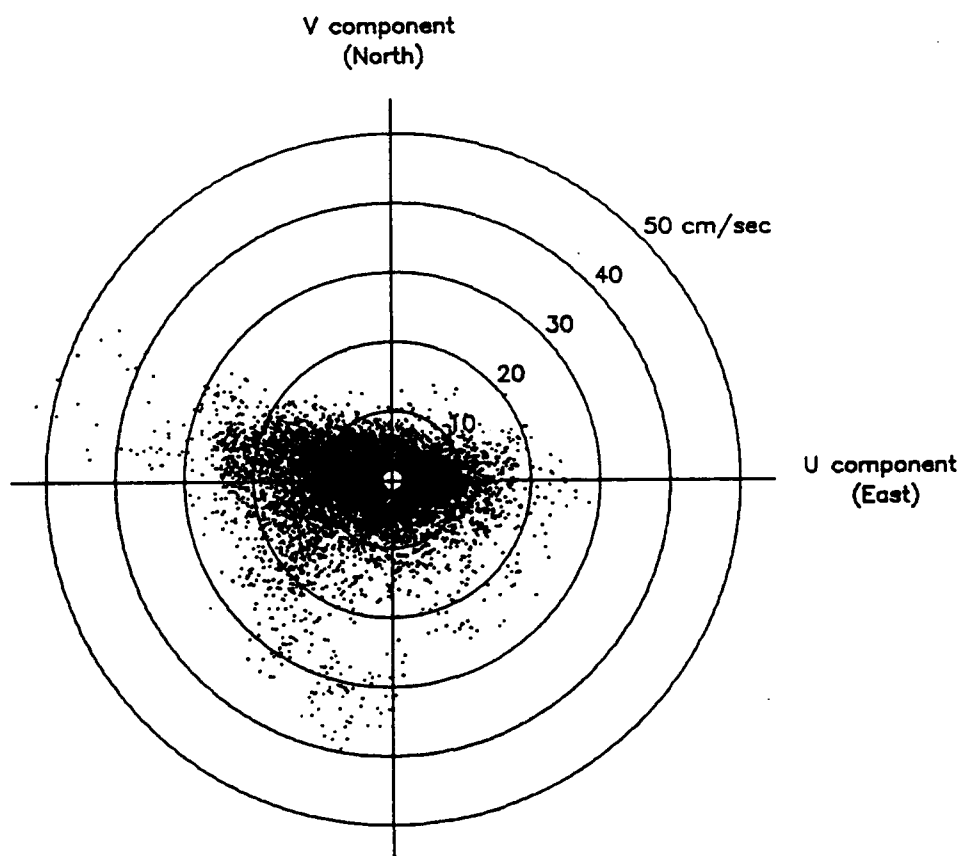
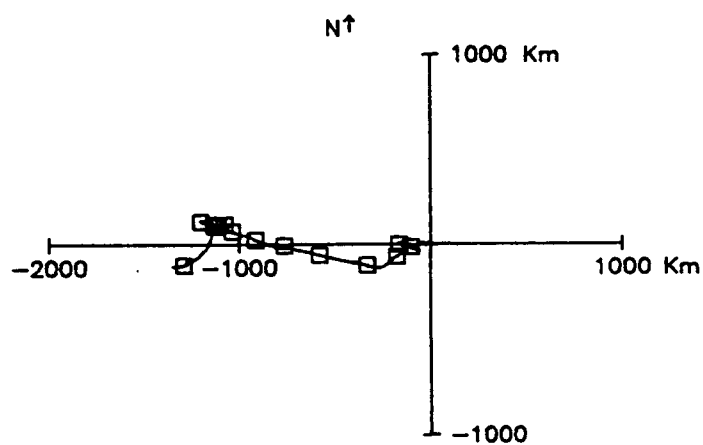
1715M AT MOORING 12. 4 FEB 86 - 4 APR 87. TAPE 4586/5.



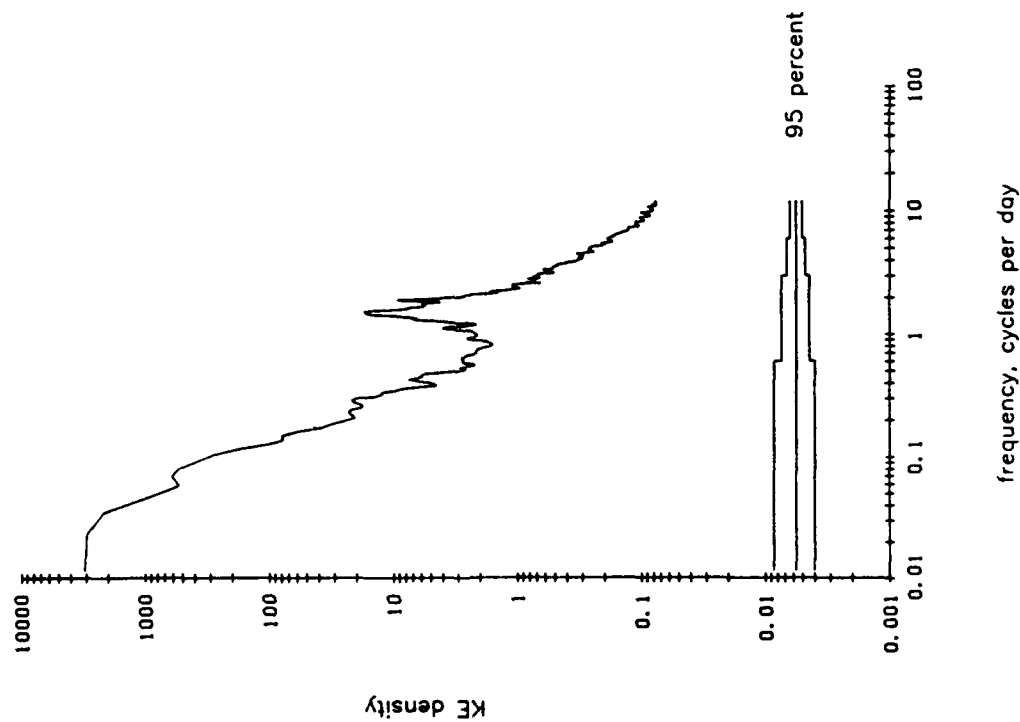
2490M AT MOORING 12. 4 FEB 86 - 4 APR 87. TAPE 7351/14.



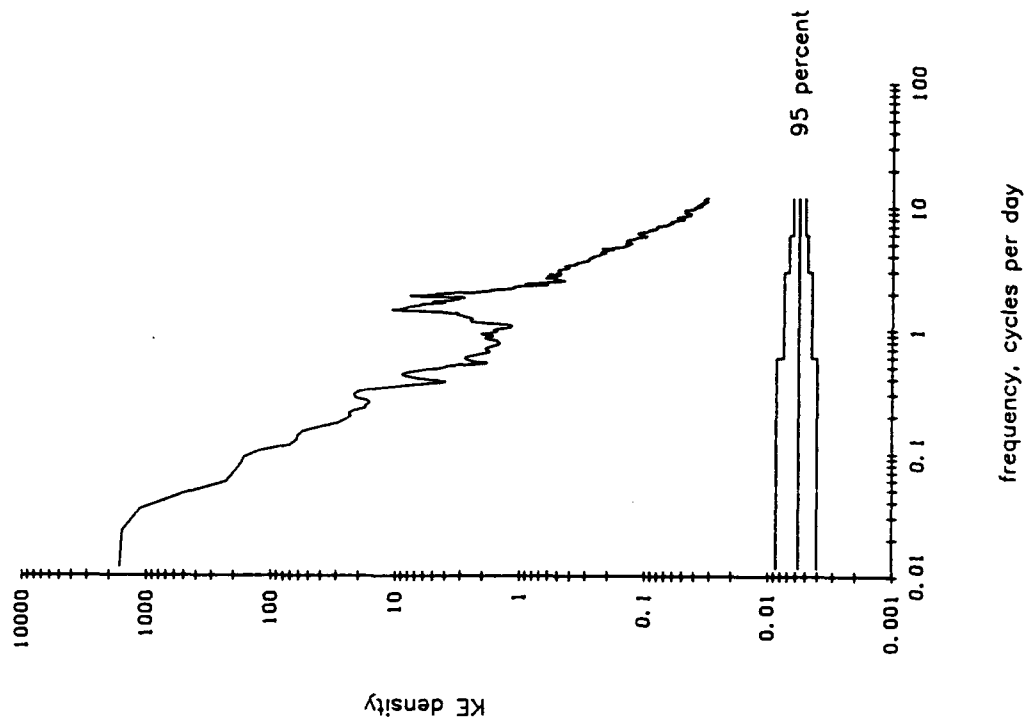
3470M AT MOORING 12. 4 FEB 86 - 4 APR 87. TAPE 6733/10.



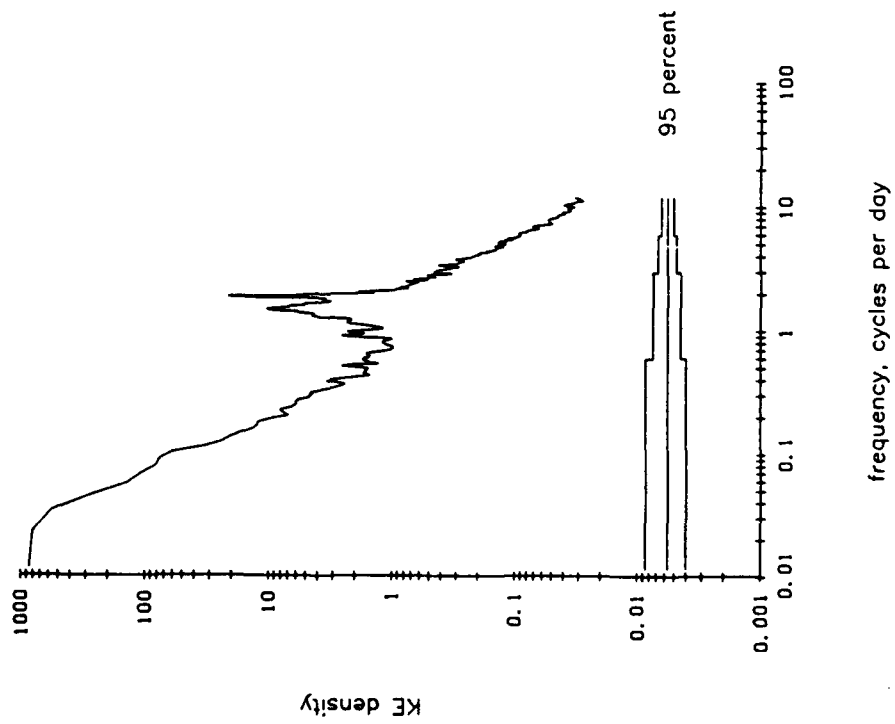
Unfiltered current. 955 m at Mooring 12.
Both components



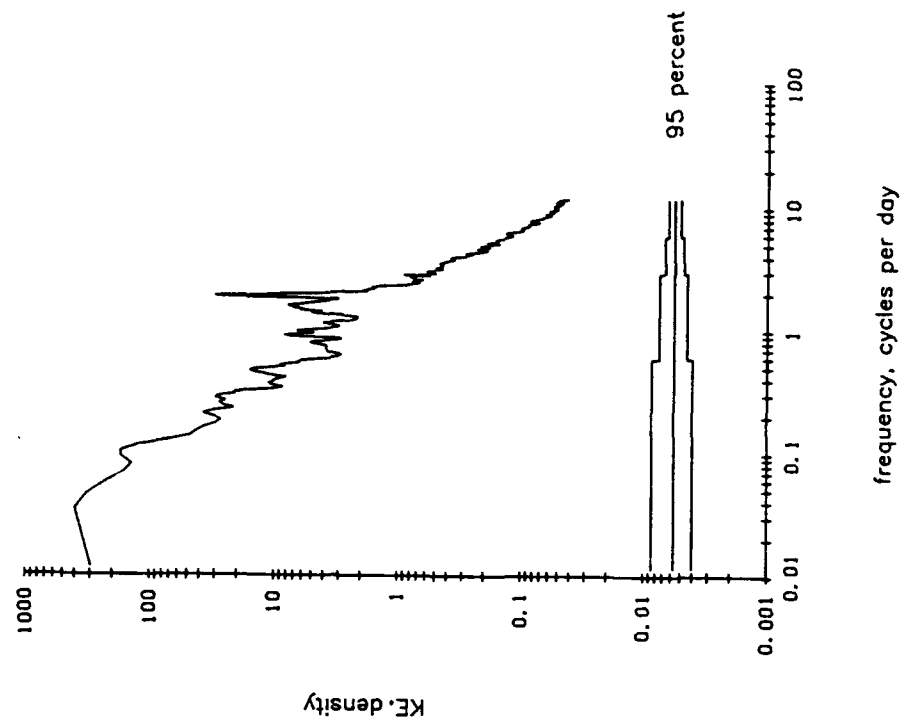
Unfiltered current. 1715 m at Mooring 12.
Both components



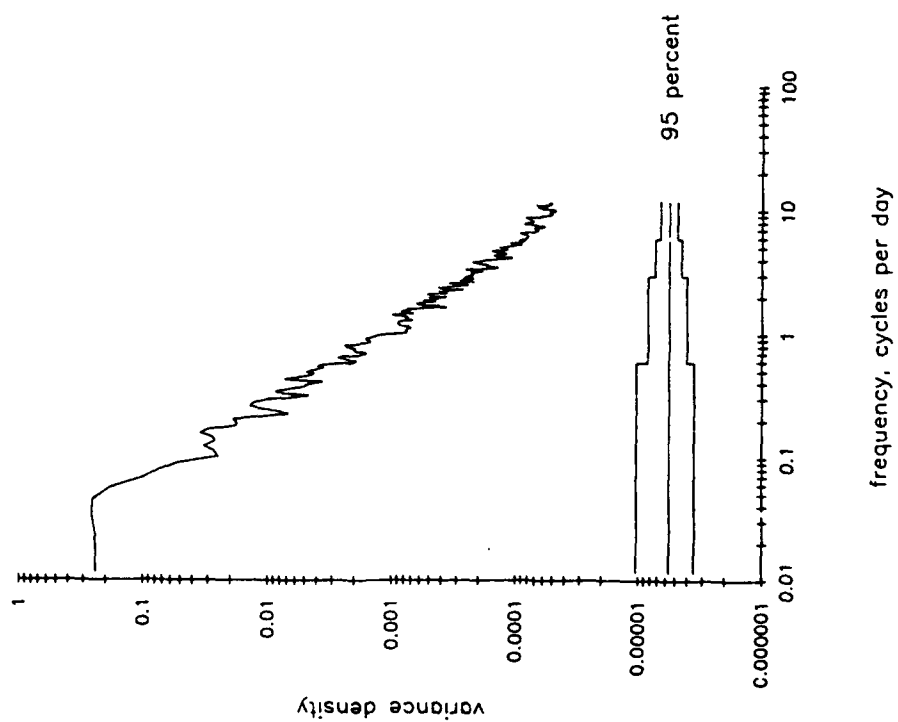
Unfiltered current. 2490 m at Mooring 12.
Both components



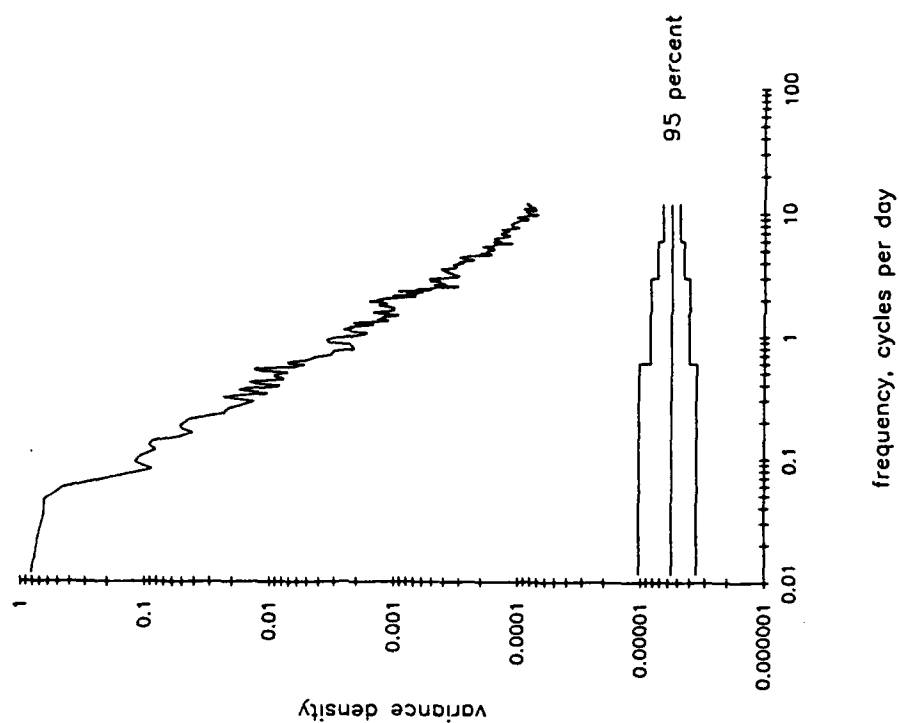
Unfiltered current. 3470 m at Mooring 12.
Both components



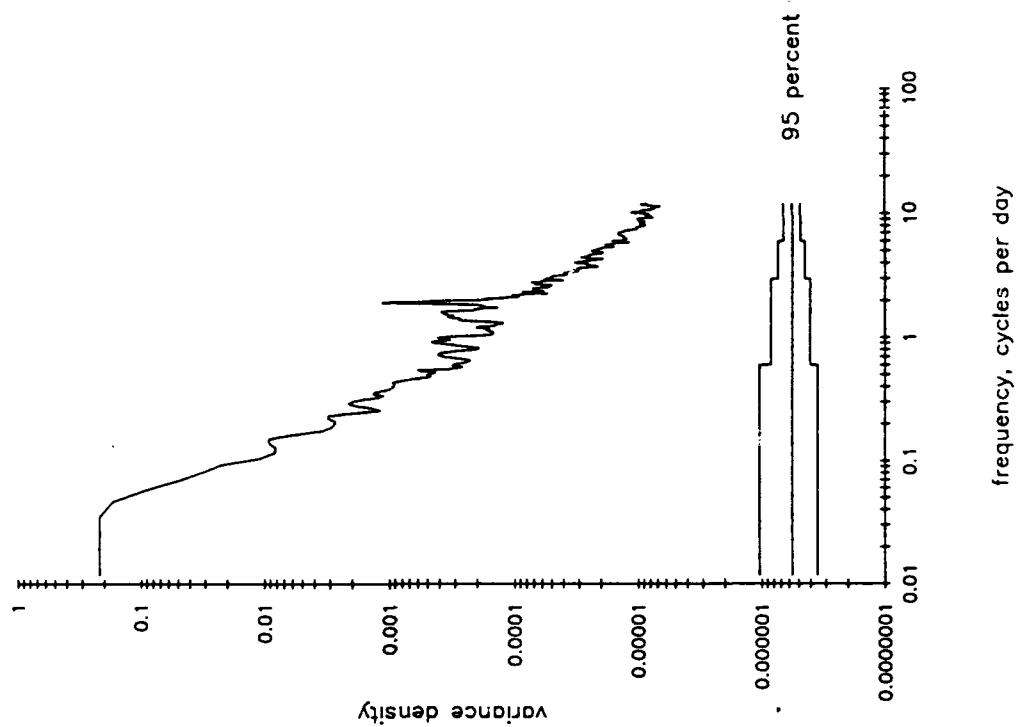
Unfiltered temperature. 955 m at Mooring 12.



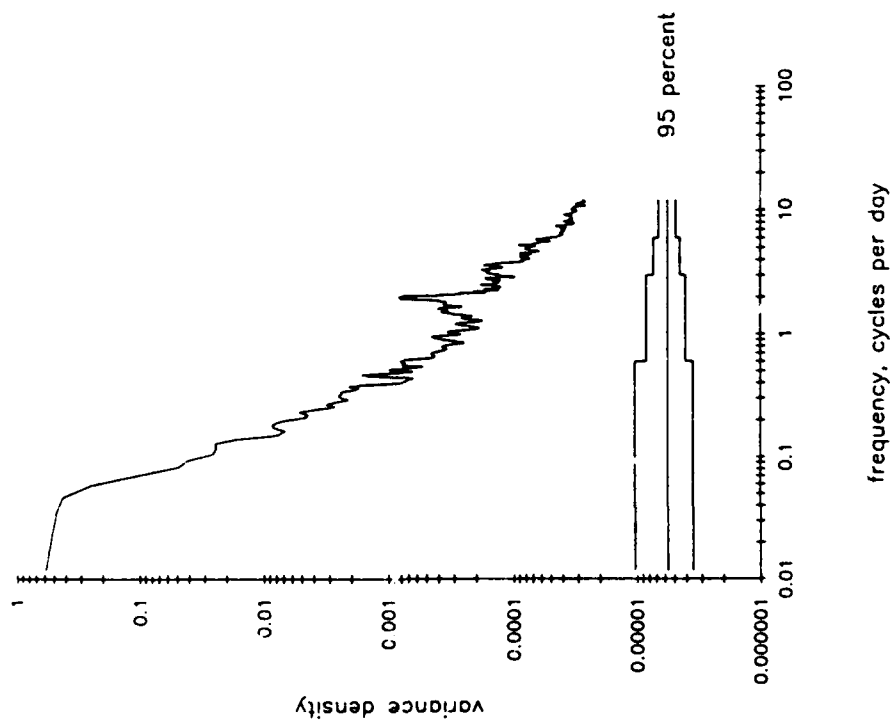
Unfiltered temperature. 1715 m at Mooring 12.

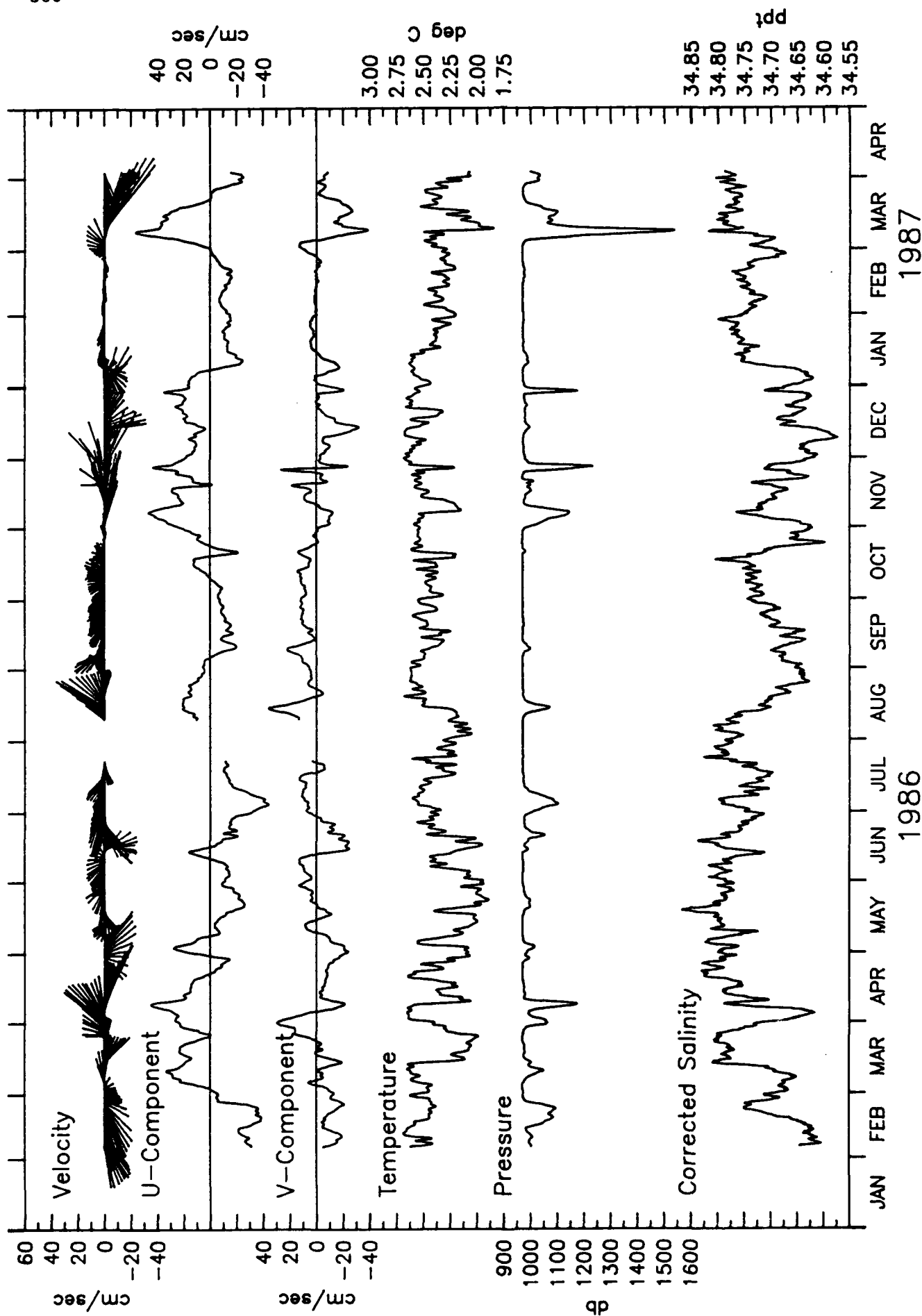


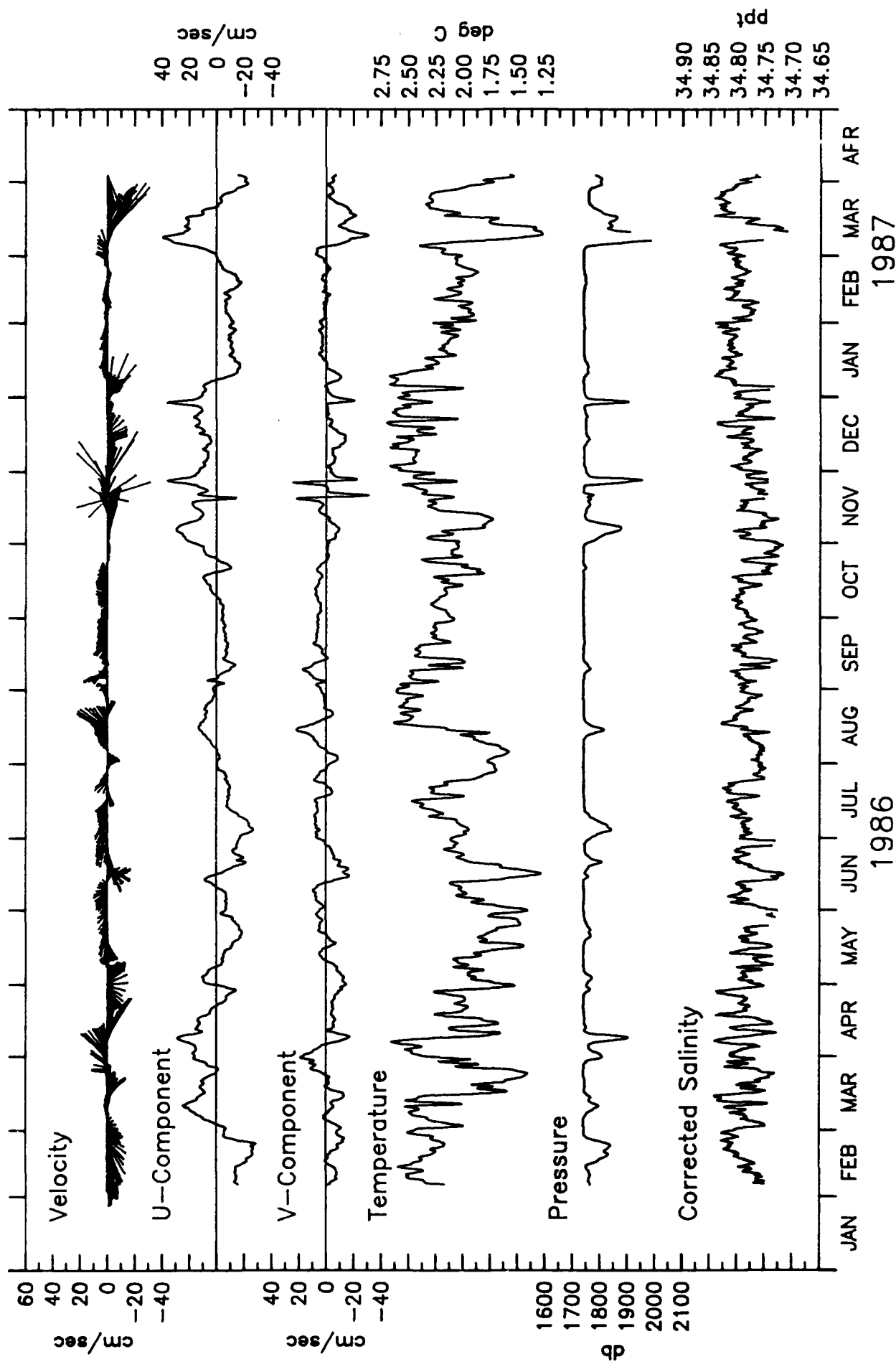
Unfiltered temperature. 3470 m at Mooring 12.



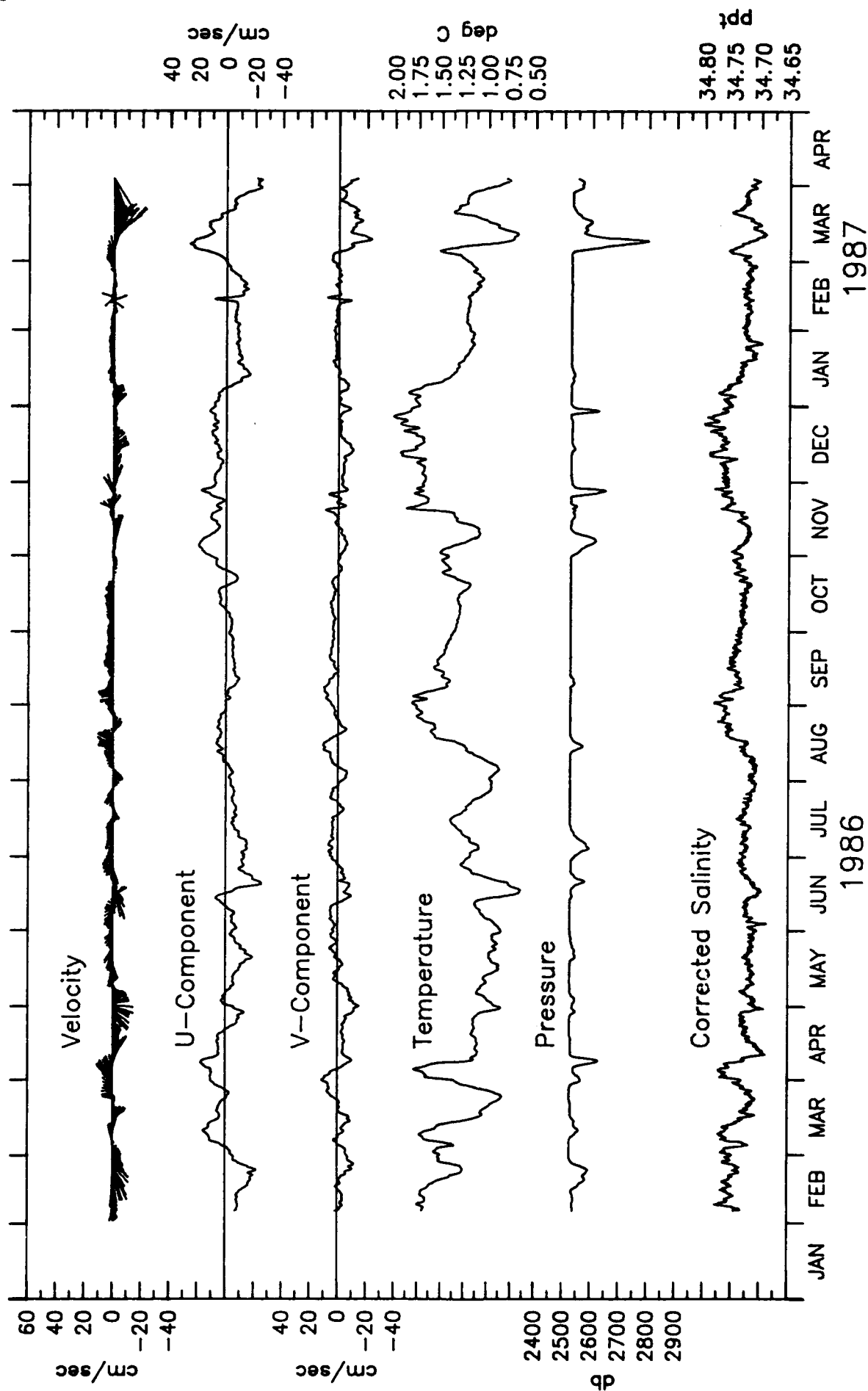
Unfiltered temperature. 2490 m at Mooring 12.

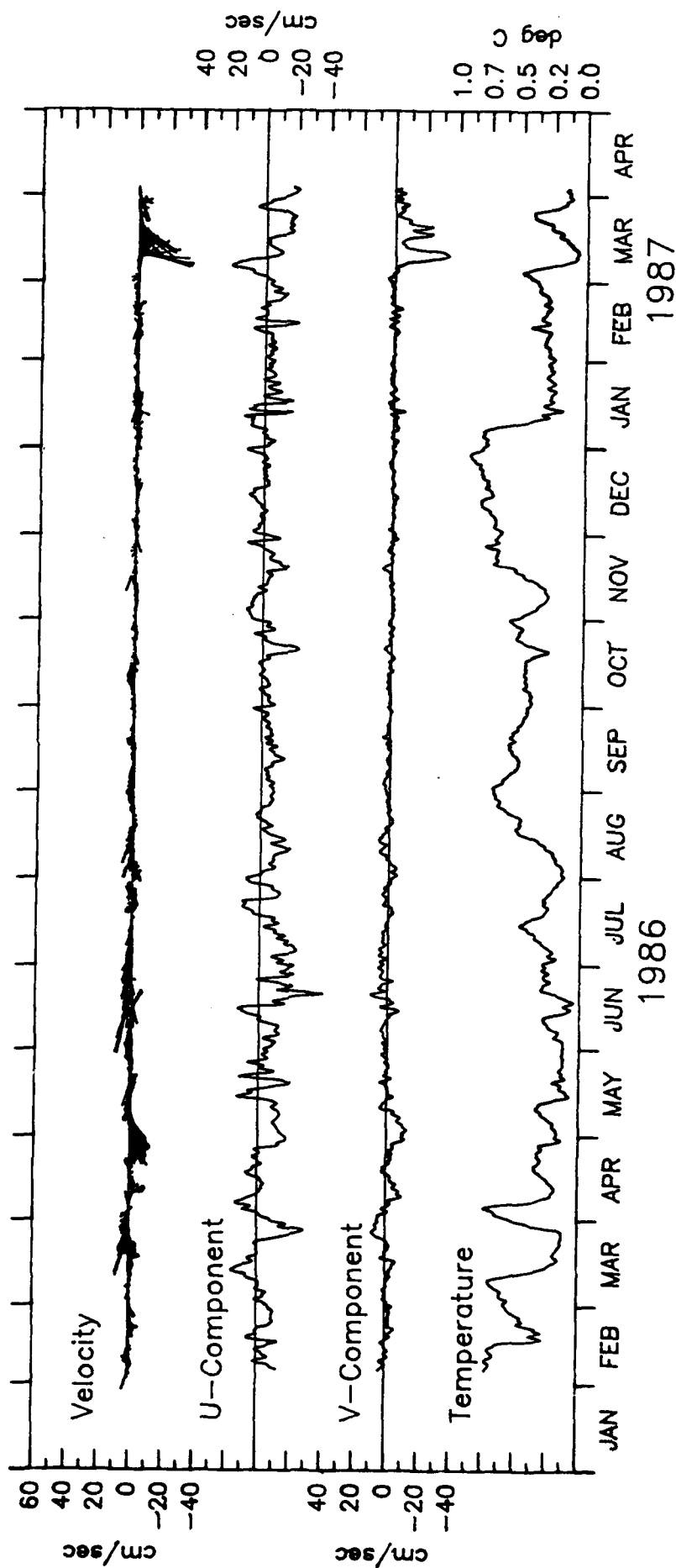




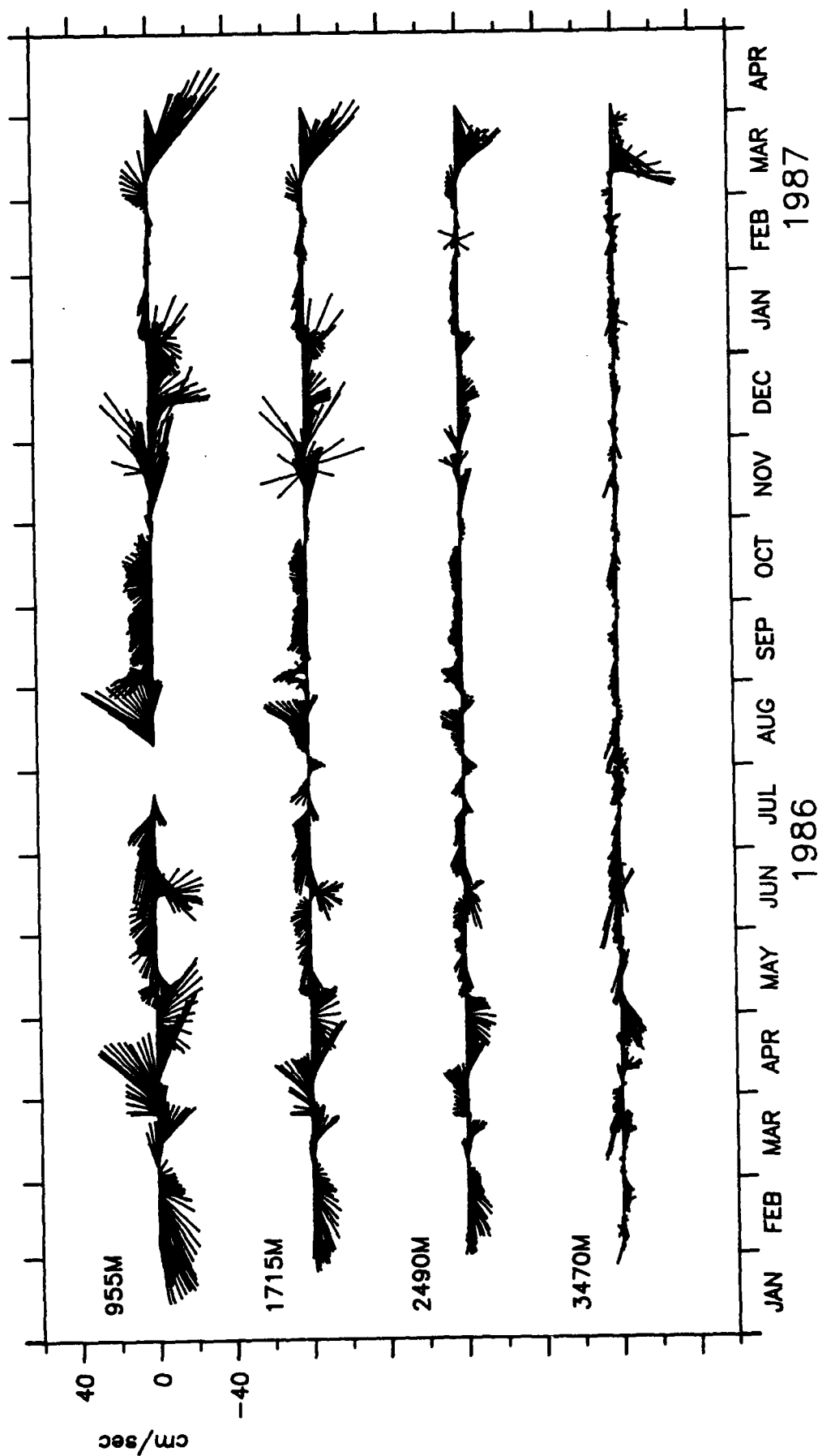


1715 M AT MOORING 12.

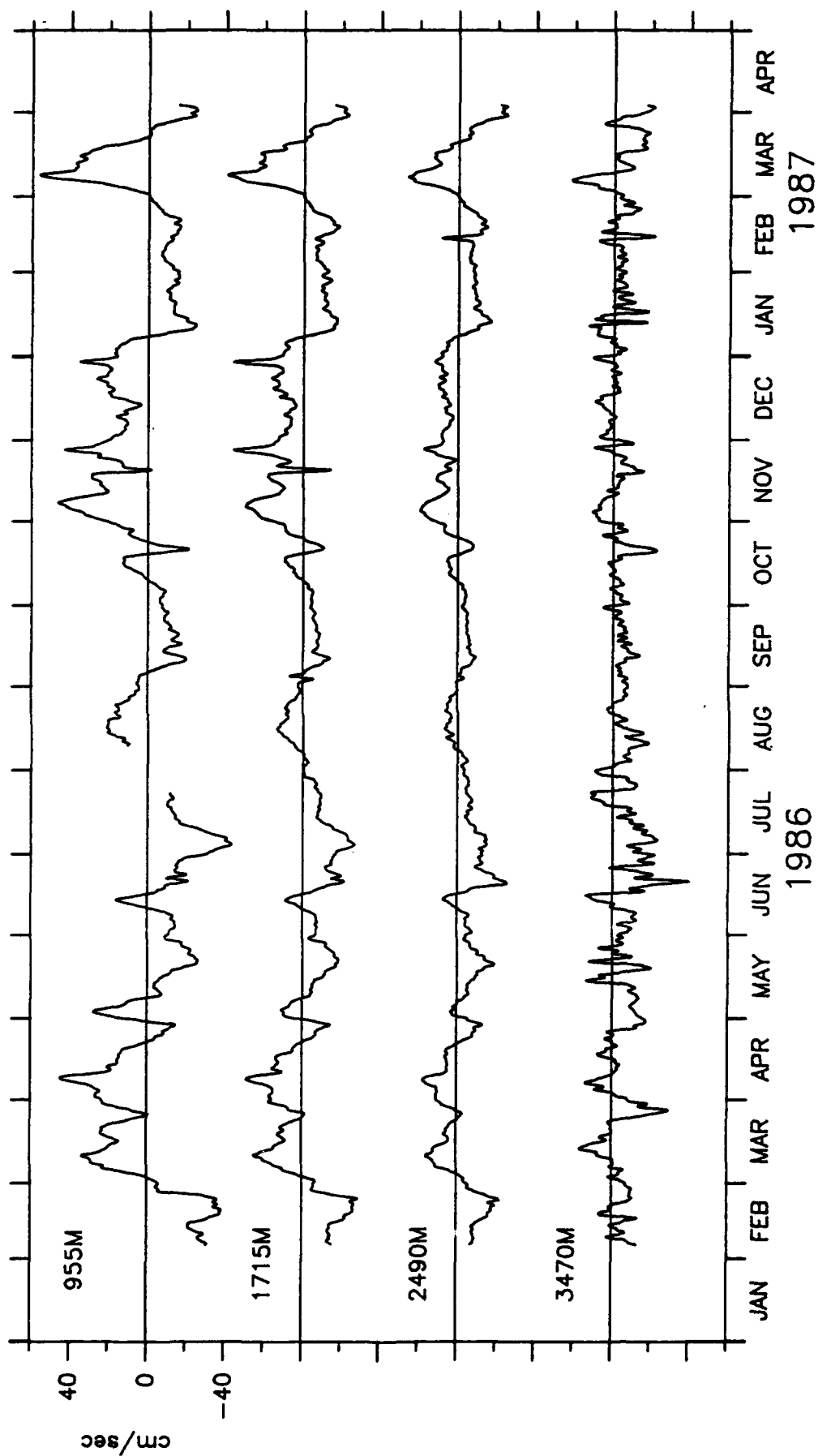




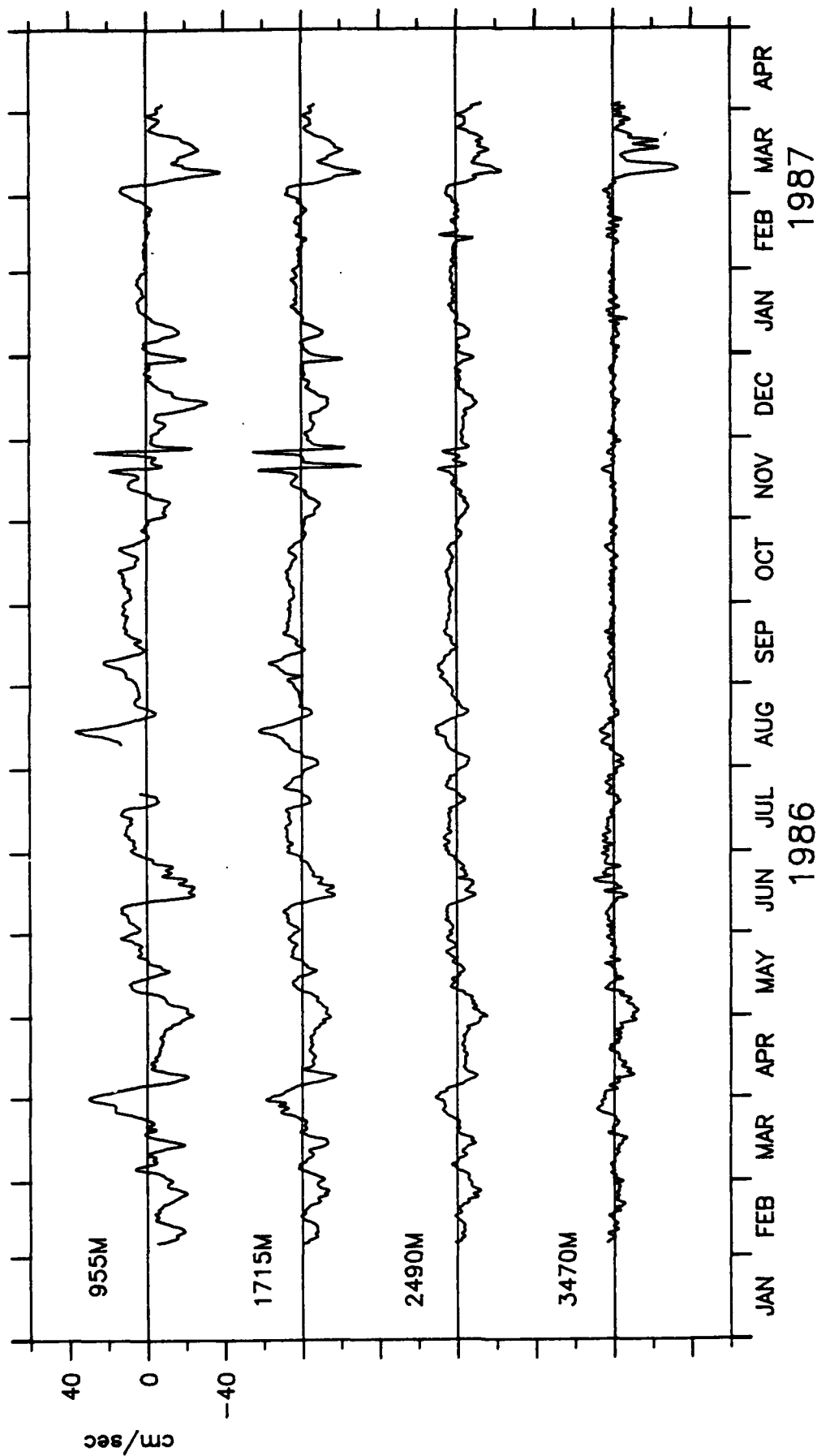
3470M AT MOORING 12.



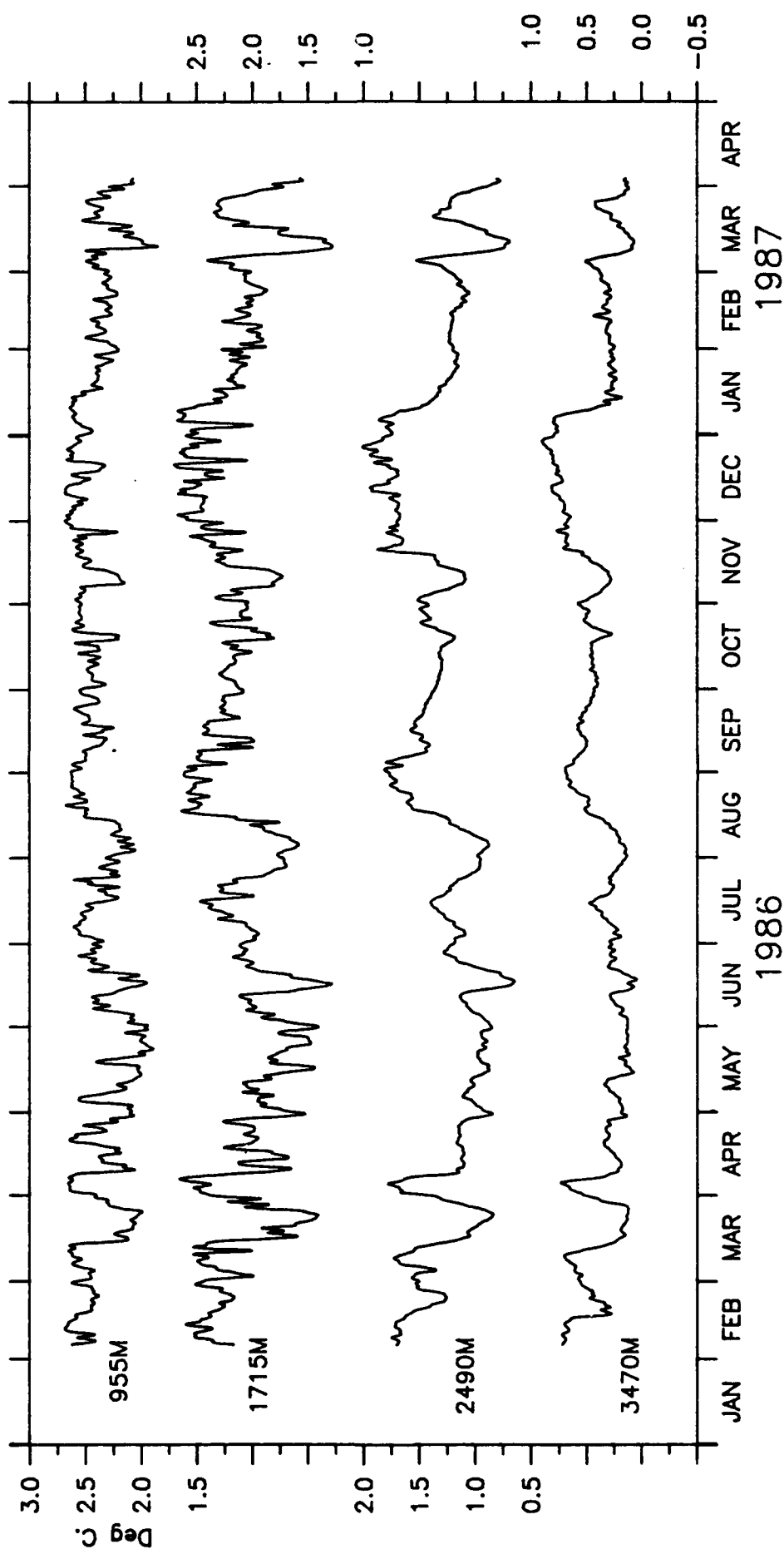
VELOCITY, MOORING 12.



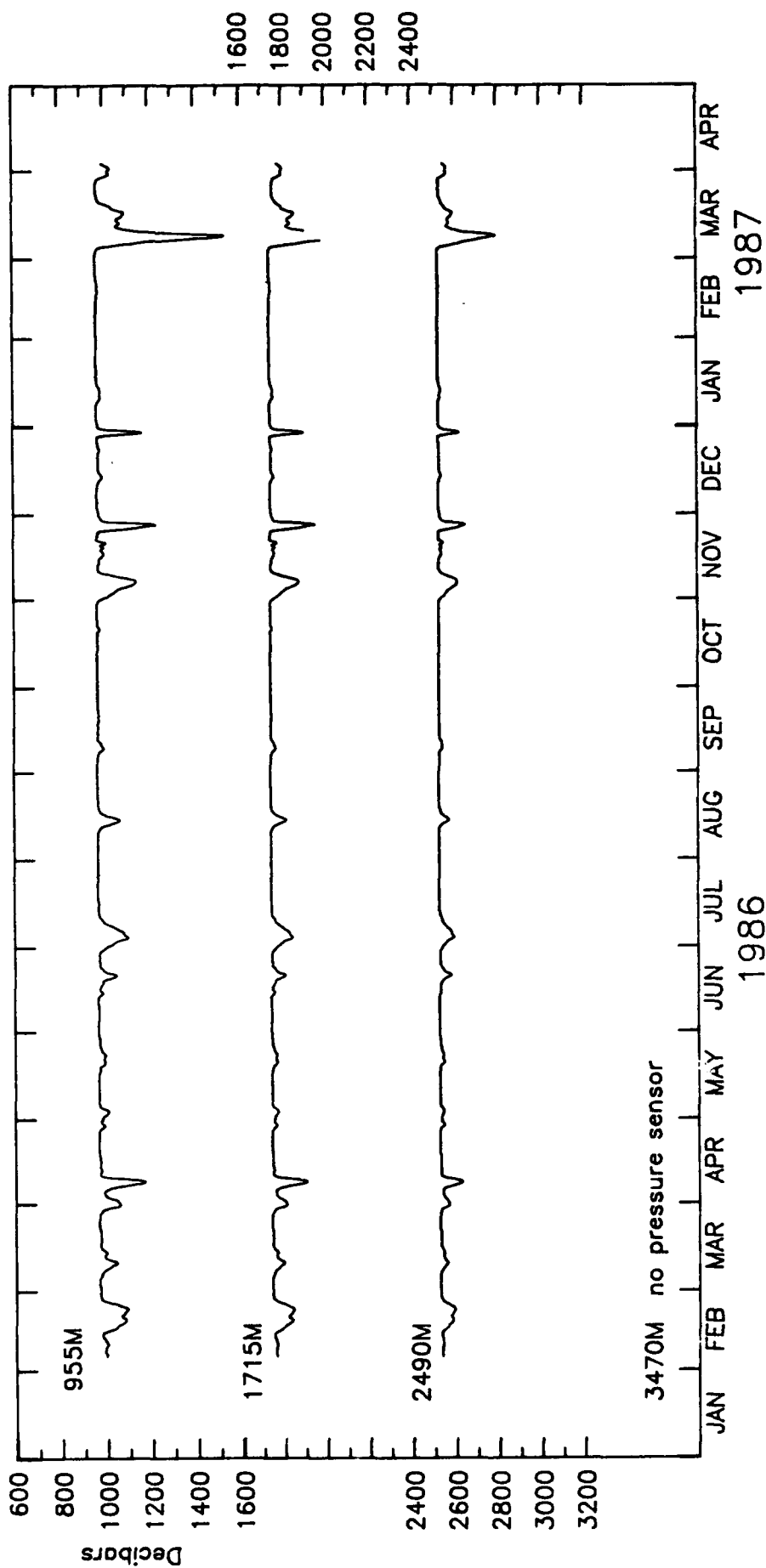
U-COMPONENT MOORING 12



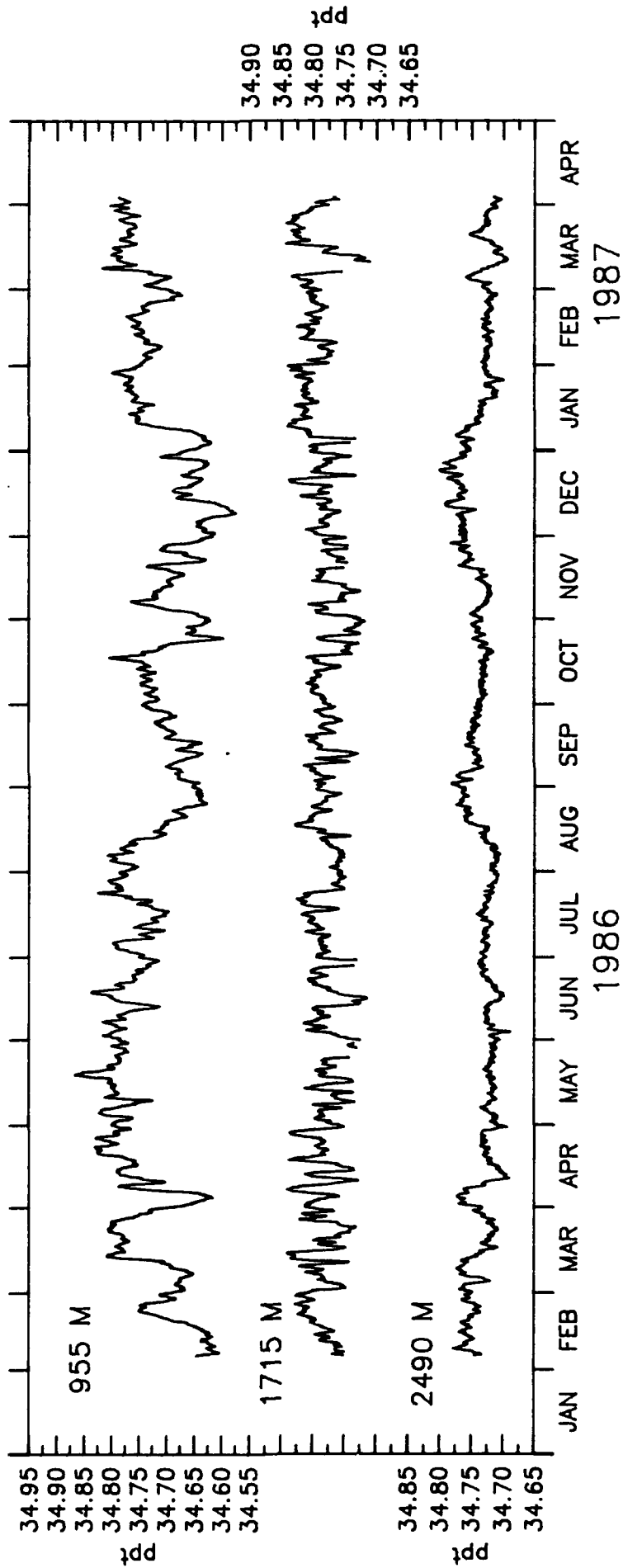
V-COMPONENT MOORING 12



TEMPERATURE, MOORING 12.



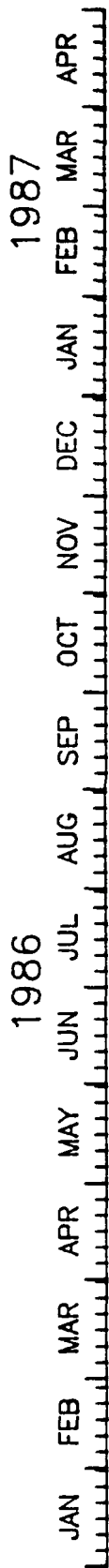
PRESSURE MOORING 12.



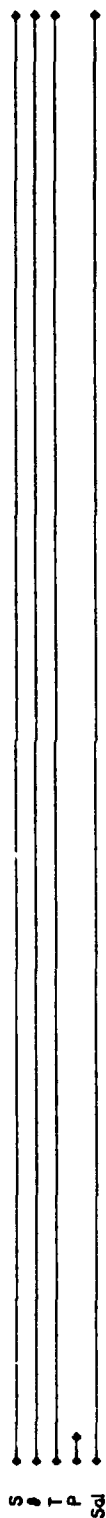
CORRECTED SALINITY AT MOORING 12.

MOORING 13

48°43.07'S, 35°09.60'W



1720 M



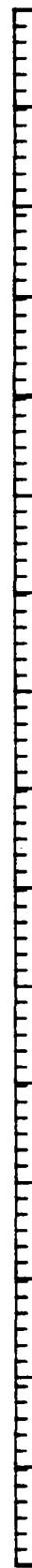
2445 M



3635 M



5163 M (flooded no data)



DATA RETURN FROM MOORING 13.



MOORING 13. UNFILTERED HOURLY DATA

1720M AT MOORING 13. 1600 5 FEB 86 - 0900 4 APR 87. TAPE 7215/12.

| | MEAN | SD | MIN | MAX | LENGTH | ENDS AT |
|---|---------|-------|---------|---------|--------|-----------------|
| S | 16.01 | 8.96 | 0.80 | 83.60 | 10146 | (0900 4 APR 87) |
| U | -0.37 | 15.60 | -83.00 | 48.90 | 10146 | (0900 4 APR 87) |
| V | 0.26 | 9.65 | -44.10 | 30.20 | 10146 | (0900 4 APR 87) |
| T | 2.02 | 0.38 | -0.12 | 3.07 | 10146 | (0900 4 APR 87) |
| P | 1762.19 | 48.31 | 1740.60 | 2109.10 | 273 | (0000 7 FEB 86) |

2445M AT MOORING 13. 1600 5 FEB 86 - 1200 18 FEB 86. TAPE 4585/6.

| | | | | | | |
|---|---------|--------|---------|---------|-----|------------------|
| S | 15.18 | 8.82 | 2.30 | 44.00 | 309 | (1200 18 FEB 86) |
| U | -14.46 | 8.94 | -44.00 | -0.70 | 309 | (1200 18 FEB 86) |
| V | -0.82 | 4.29 | -11.90 | 10.80 | 309 | (1200 18 FEB 86) |
| T | 1.49 | 0.30 | 0.58 | 1.79 | 309 | (1200 18 FEB 86) |
| P | 2585.55 | 237.98 | 2479.90 | 3459.00 | 309 | (1200 18 FEB 86) |

3635M AT MOORING 13. 1700 5 FEB 86 - 1300 7 JAN 87. TAPE 2281/29.

| | | | | | | |
|---|---------|--------|---------|---------|------|------------------|
| S | 12.68 | 10.67 | 0.80 | 58.90 | 7760 | (1300 7 JAN 87) |
| U | -5.84 | 13.84 | -56.80 | 29.90 | 6187 | (1100 21 OCT 86) |
| V | -0.02 | 7.74 | -45.90 | 27.30 | 6187 | (1100 21 OCT 86) |
| T | 0.44 | 0.16 | 0.09 | 0.87 | 6343 | (2300 27 OCT 86) |
| P | 3745.94 | 142.76 | 3516.00 | 4810.00 | 6607 | (2300 7 NOV 86) |

5163M AT MOORING 13. TAPE 6735. FLOODED. NO DATA

(1720 M) PRESSURE SENSOR OVERRANGED AND DAMAGED.

(2445 M) METER FLOODED AFTER 18 FEB 86.

(3635 M) VERY POOR RECORD IN ALL CHANNELS, RECORDS TERMINATED EARLY.
 GAP IN SPEED LINES: 6945 - 7245 (0100 22 NOV 86 - 1300
 4 DEC 86).

(Speed, u, and v are given in cm/sec, Temperature in °C, Pressure
 in DB).

MOORING 13. LLP FILTERED 6-HOURLY DATA

1720M AT MOORING 13. 1800 6 FEB 86 - 1200 3 APR 87 TAPE 7215/12.

| | MEAN | SD | MIN | MAX | LENGTH | ENDS AT |
|---|---------|-------|---------|---------|--------|------------------|
| U | -0.29 | 15.32 | -67.68 | 42.21 | 1682 | (0000 3 APR 87) |
| V | 0.30 | 9.18 | -40.70 | 21.69 | 1682 | (0000 3 APR 87) |
| T | 2.02 | 0.36 | 0.30 | 2.83 | 1682 | (0000 3 APR 87) |
| P | 1749.93 | 13.53 | 1740.25 | 1783.36 | 37 | (1800 15 FEB 86) |

2445M AT MOORING 13. 1800 6 FEB 86 - 0600 17 FEB 86. TAPE 4585/6.

| | | | | | | |
|---|---------|--------|---------|---------|----|------------------|
| U | -12.94 | 5.10 | -29.01 | -7.71 | 43 | (0600 17 FEB 86) |
| V | -0.84 | 2.27 | -4.50 | 3.31 | 43 | (0600 17 FEB 86) |
| T | 1.57 | 0.16 | 0.90 | 1.67 | 43 | (0600 17 FEB 86) |
| P | 2520.44 | 101.67 | 2479.45 | 3025.10 | 43 | (0600 17 FEB 86) |
| S | 34.74 | 2.06 | 34.73 | 34.76 | 43 | (0600 17 FEB 86) |

3635M AT MOORING 13. 1800 6 FEB 86 - 1800 6 NOV 86 TAPE 2281/29.

| | | | | | | |
|---|---------|--------|---------|---------|------|------------------|
| U | -5.92 | 13.65 | -52.96 | 24.54 | 1023 | (0600 20 OCT 86) |
| V | -0.08 | 7.09 | -40.54 | 20.88 | 1023 | (0600 20 OCT 86) |
| T | 0.43 | 0.16 | 0.10 | 0.80 | 1049 | (1800 26 OCT 86) |
| P | 3746.77 | 141.41 | 3517.94 | 4743.35 | 1093 | (1800 6 NOV 86) |

5163M AT MOORING 13. FLOODED, NO DATA. TAPE 6735.

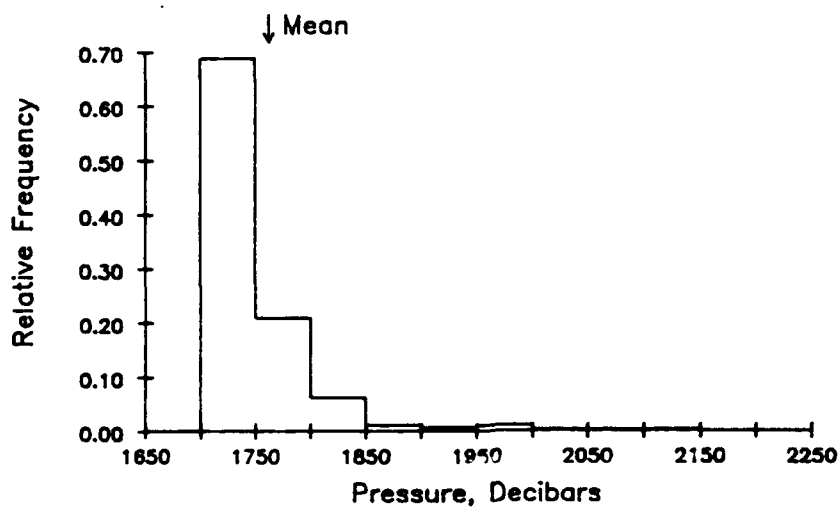
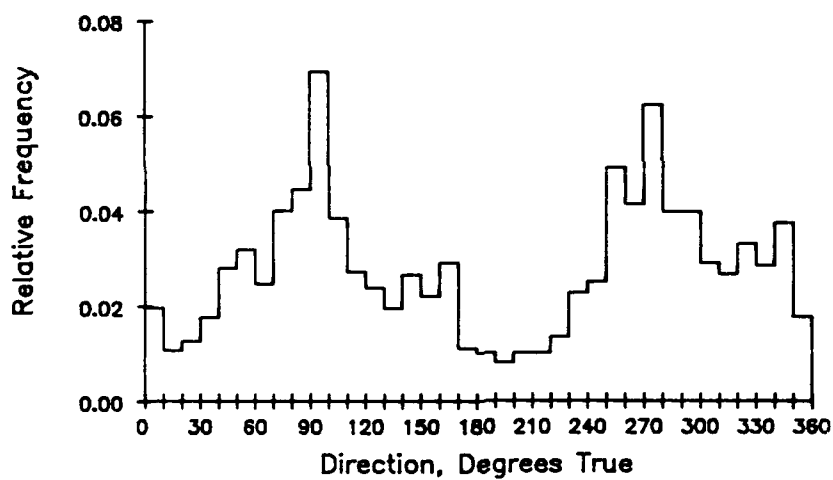
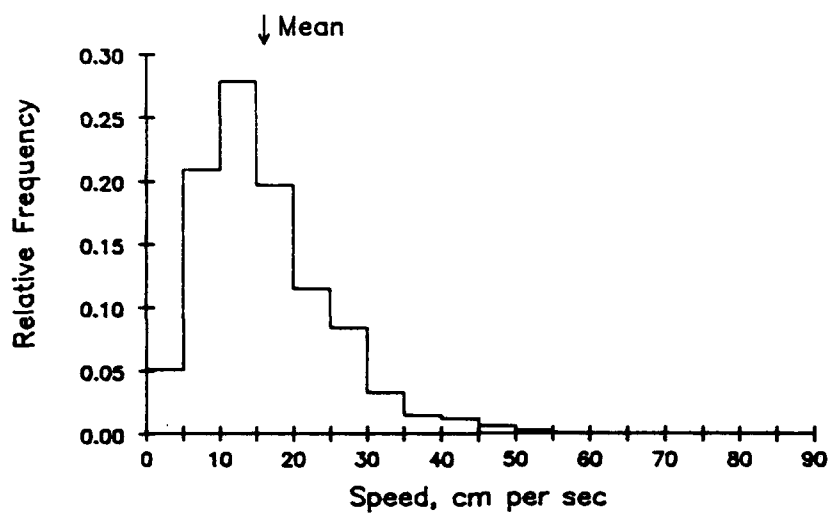
(1720 M) PRESSURE SENSOR OVERRANGED AND DAMAGED. SALINITY RECORD NOT CALCULATED.

(2445 M) METER FLOODED AFTER 18 FEB 86.

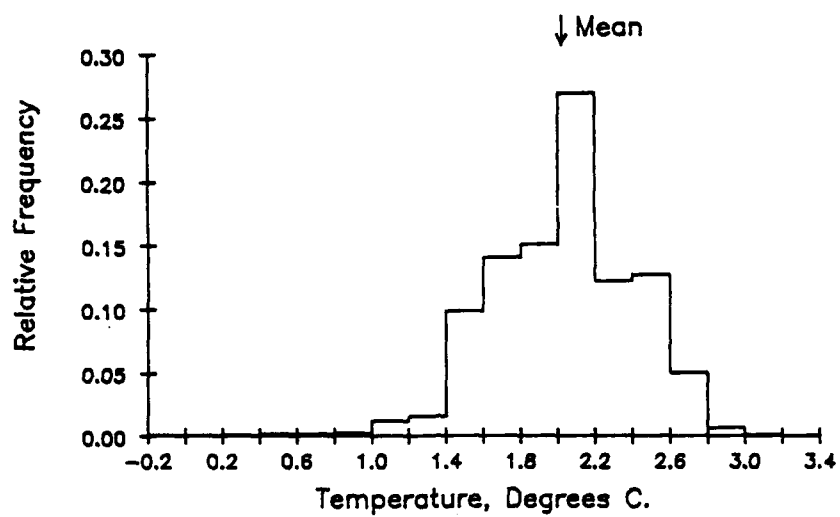
(3635 M) VERY POOR RECORD IN ALL CHANNELS, RECORDS TERMINATED EARLY.

(Speed, u, and v are given in cm/sec, Temperature in °C, Pressure in DB, and Corrected Salinity in ppt.)

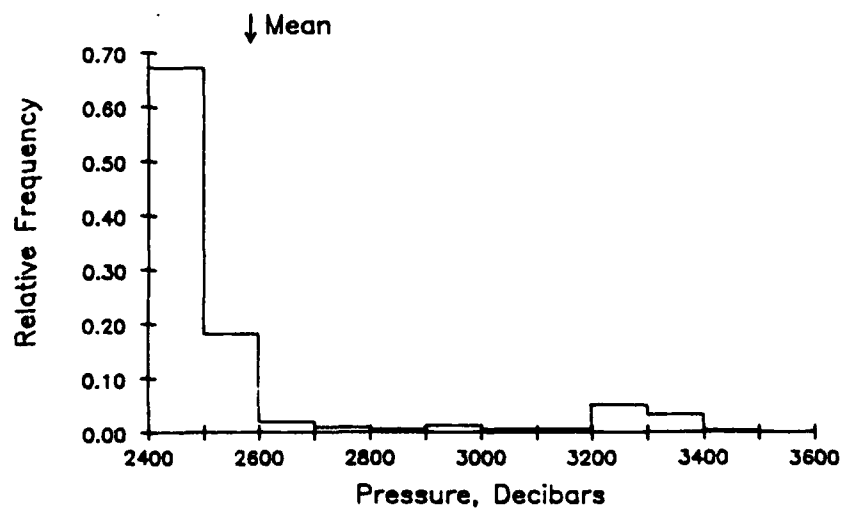
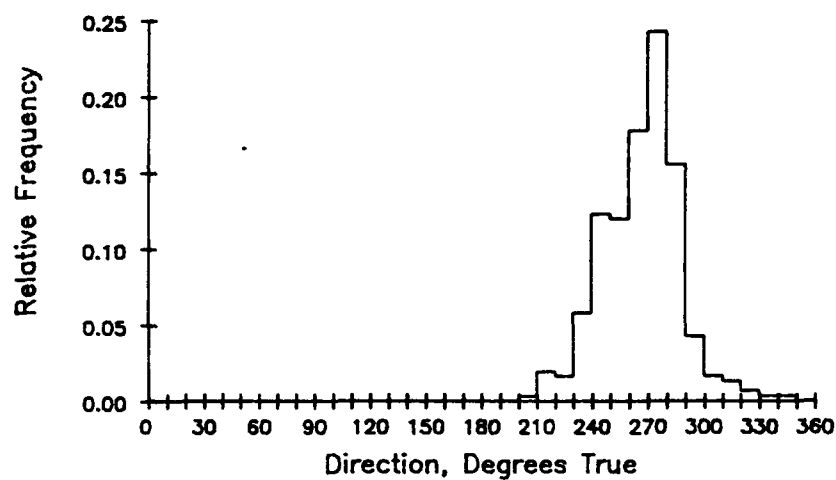
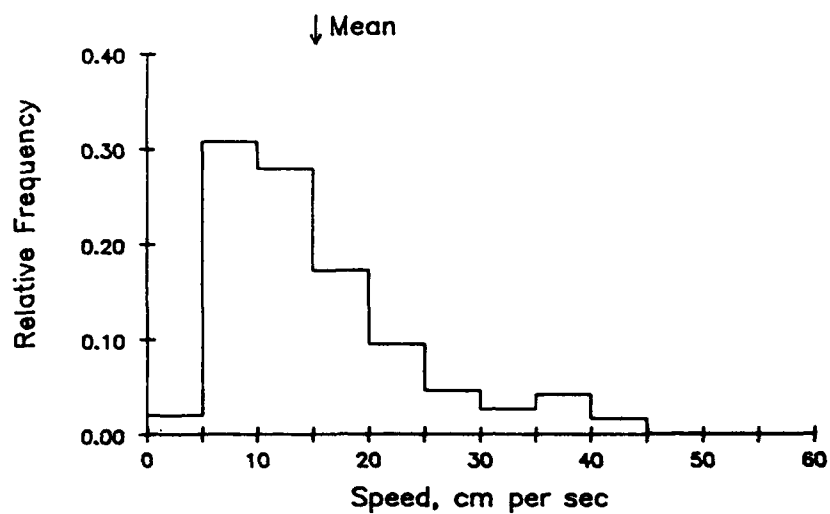
1720 METERS AT MOORING 13. TAPE 7215/12.



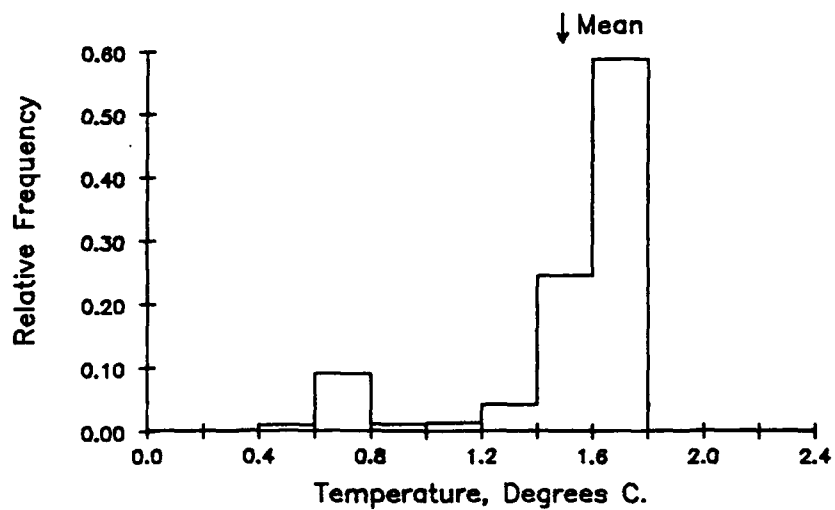
1720 METERS AT MOORING 13. TAPE 7215/12.



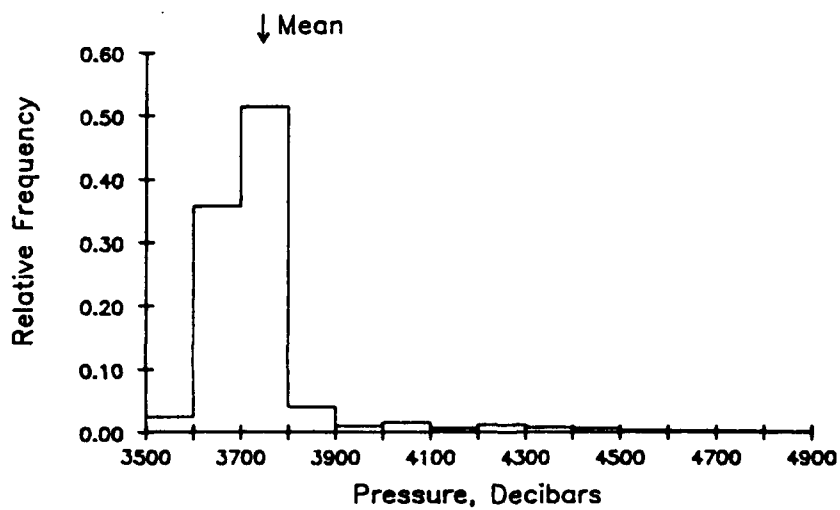
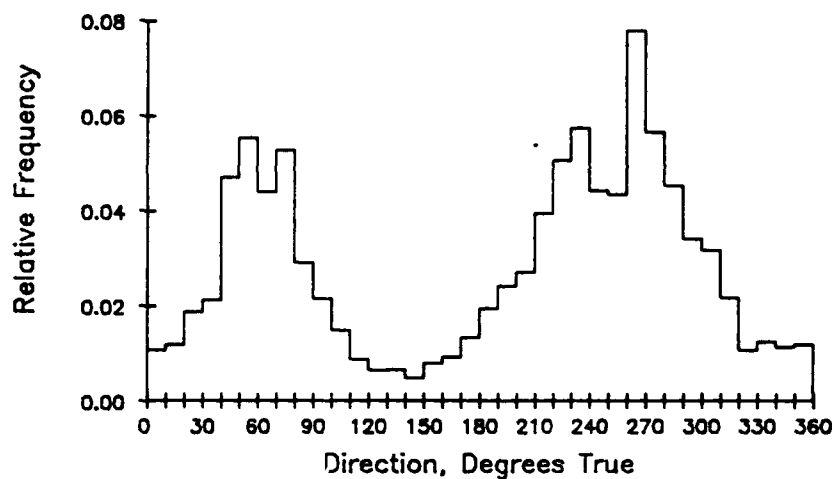
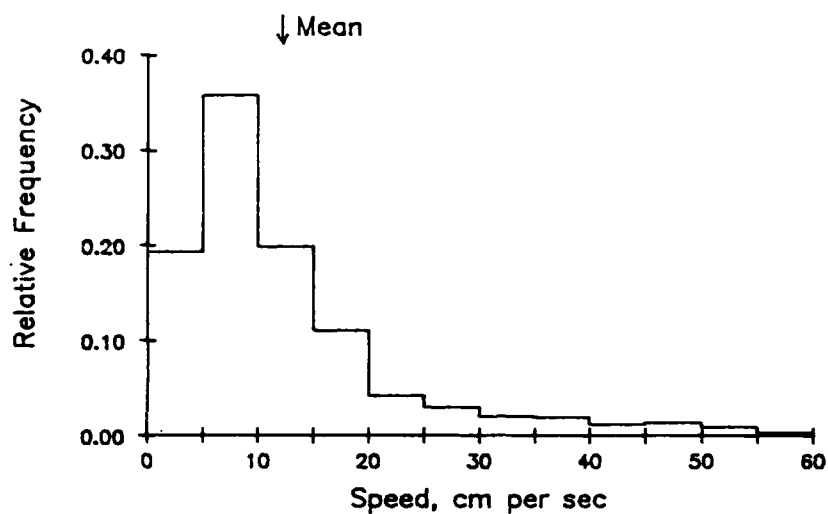
2445 METERS AT MOORING 13. TAPE 4585/6.



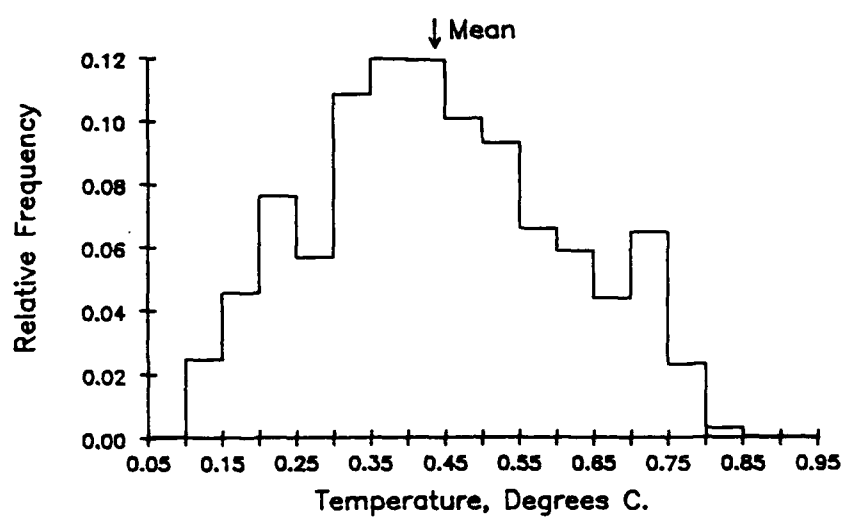
2445 METERS AT MOORING 13. TAPE 4585/6.



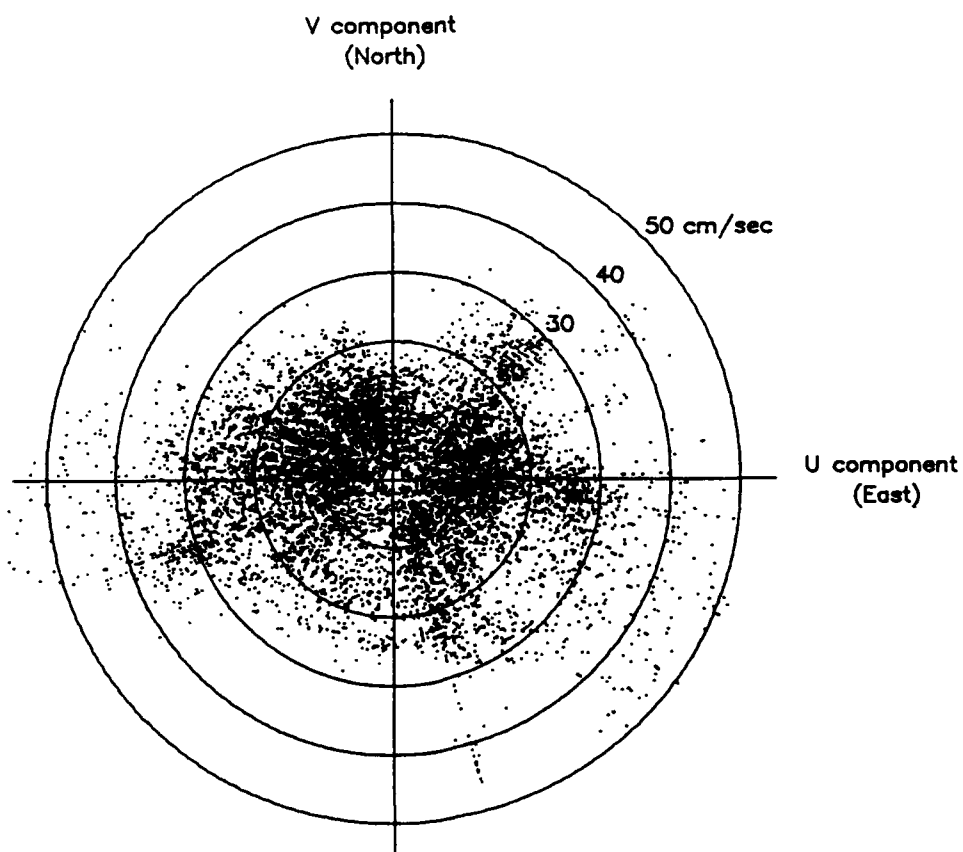
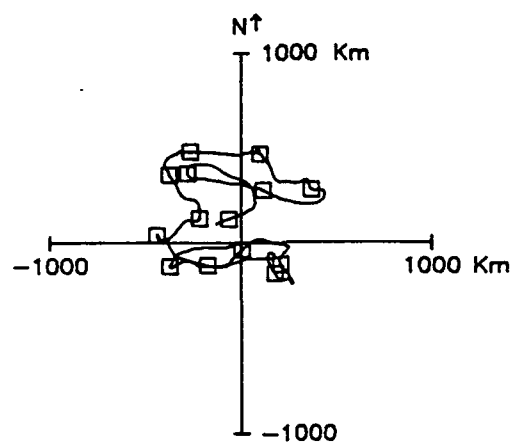
3635 METERS AT MOORING 13. TAPE 2281/29.



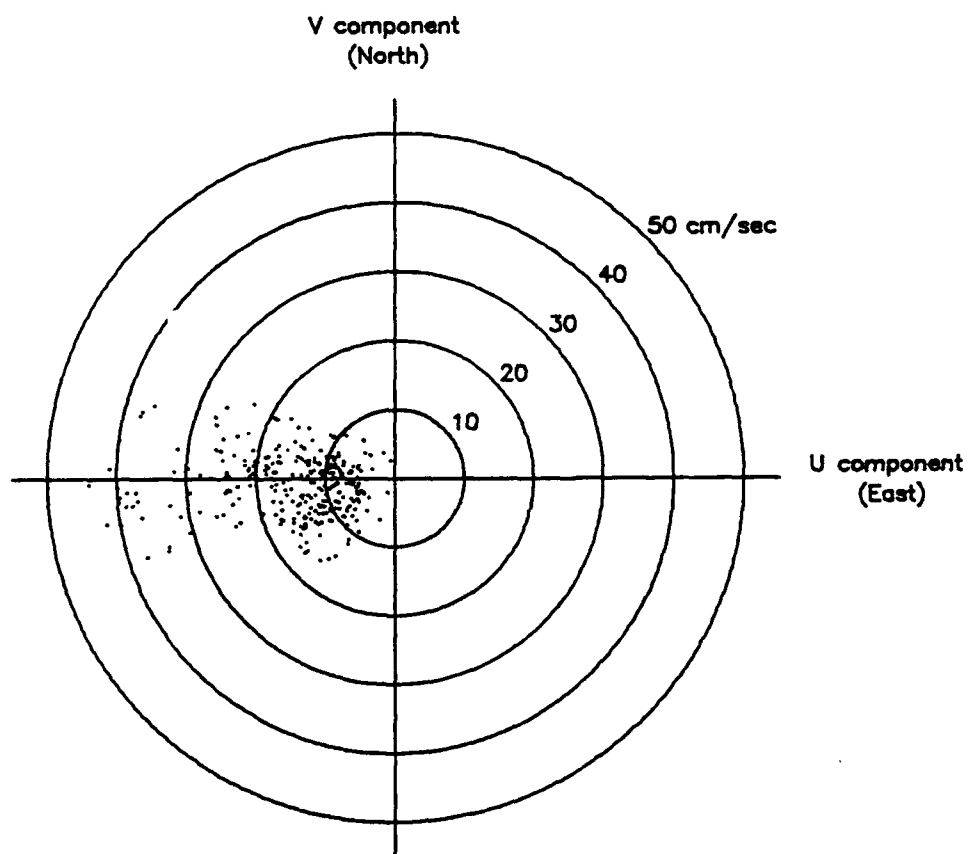
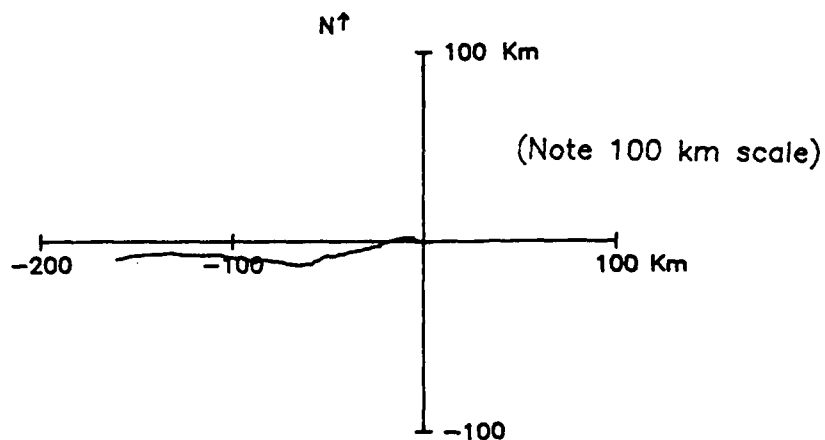
3635 METERS AT MOORING 13. TAPE 2281/29.



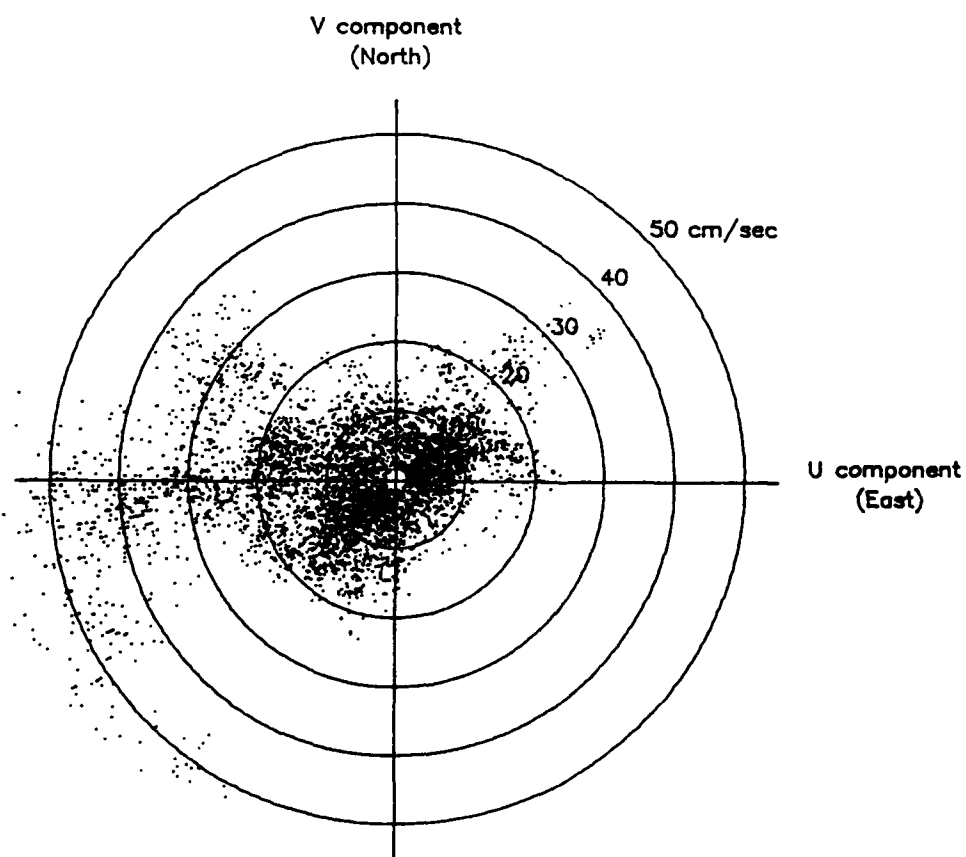
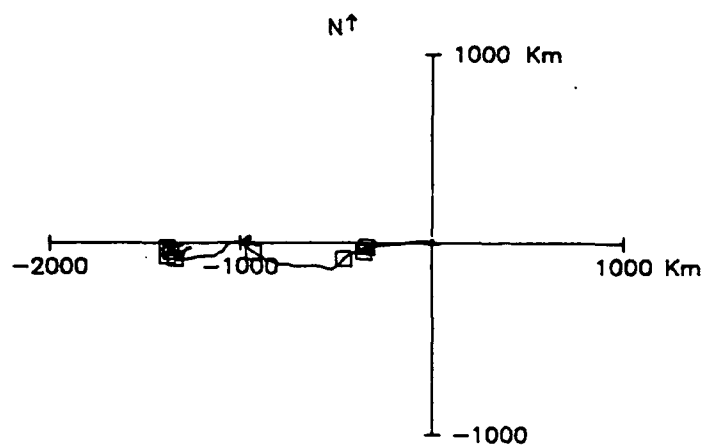
1720M AT MOORING 13. 5 FEB 86 - 4 APR 87. TAPE 7215/12.



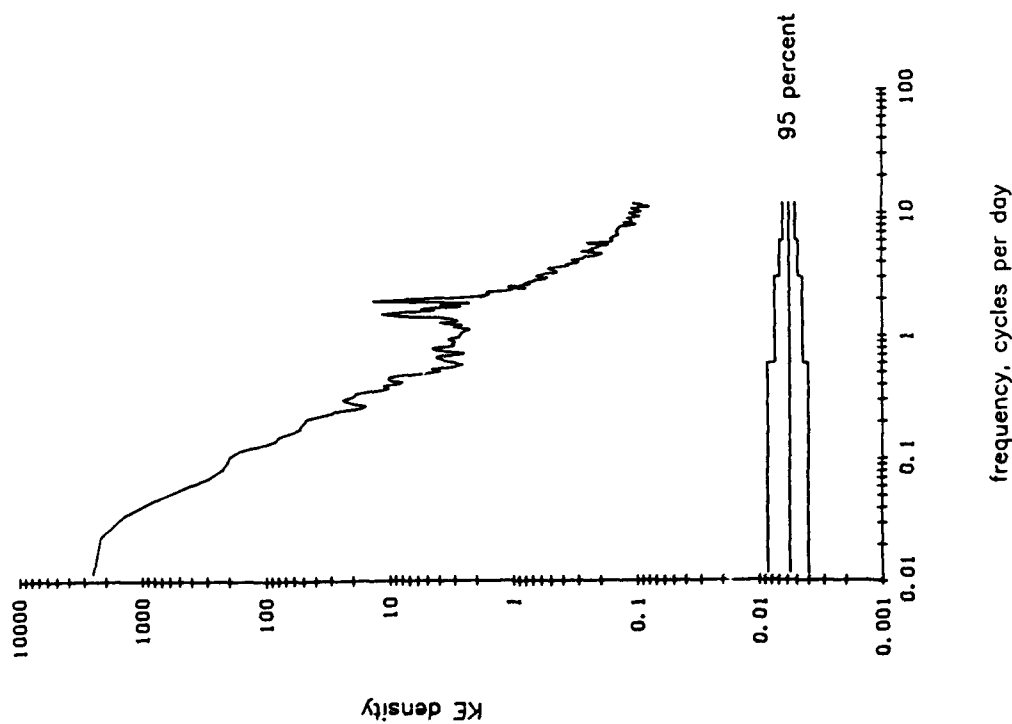
2445M AT MOORING 13. 5 FEB 86 - 18 FEB 86. TAPE 4585/6.



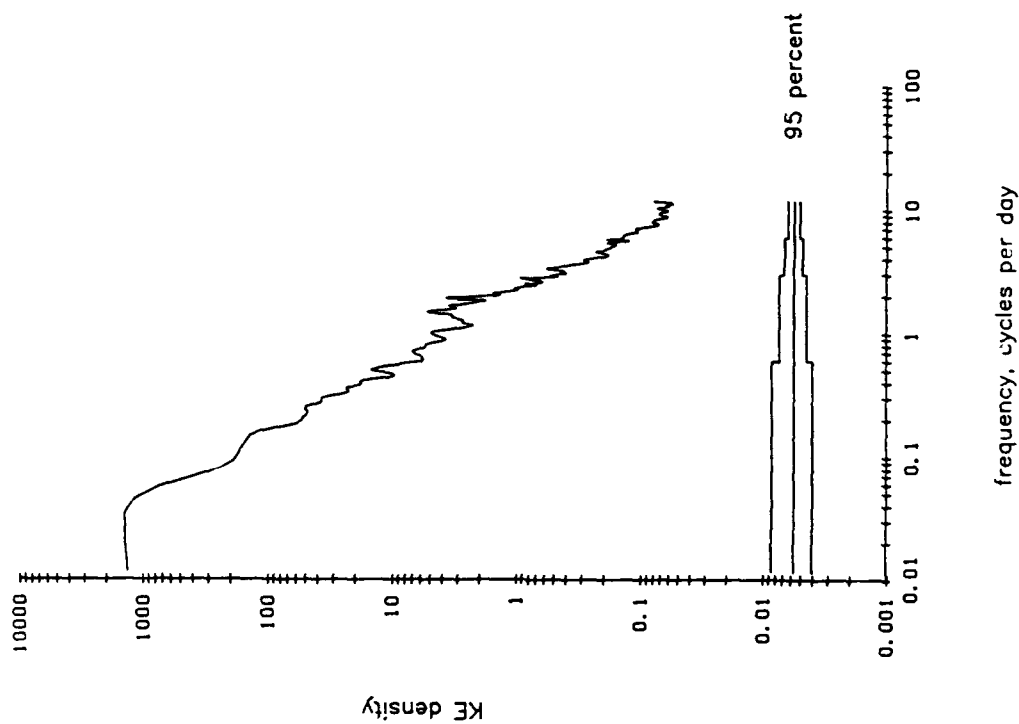
3635M AT MOORING 13. 5 FEB 86 - 21 OCT 86. TAPE 2281/29.



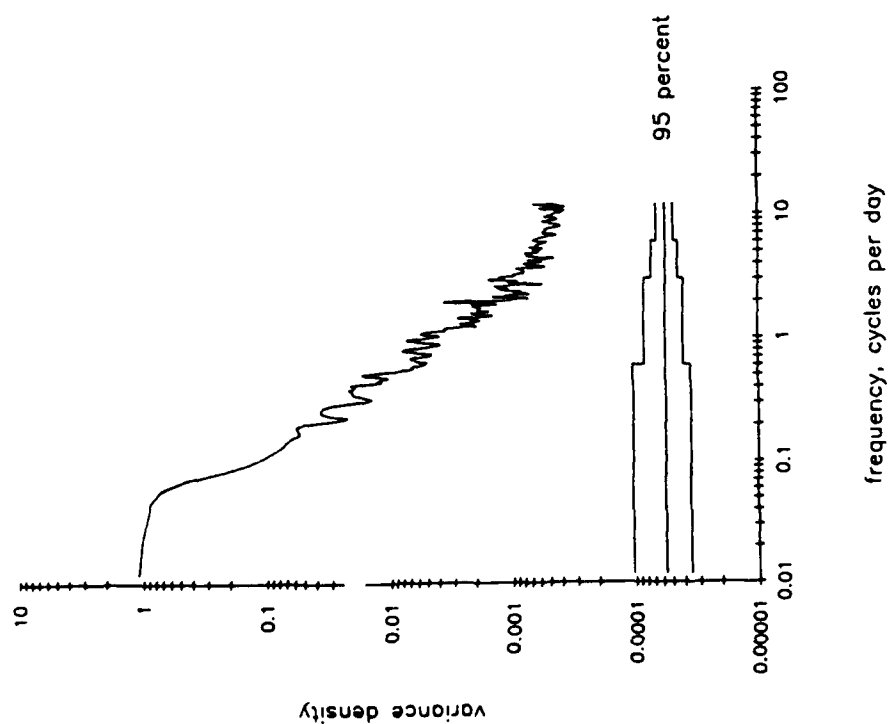
Unfiltered current. 1720 m at Mooring 13.
Both components



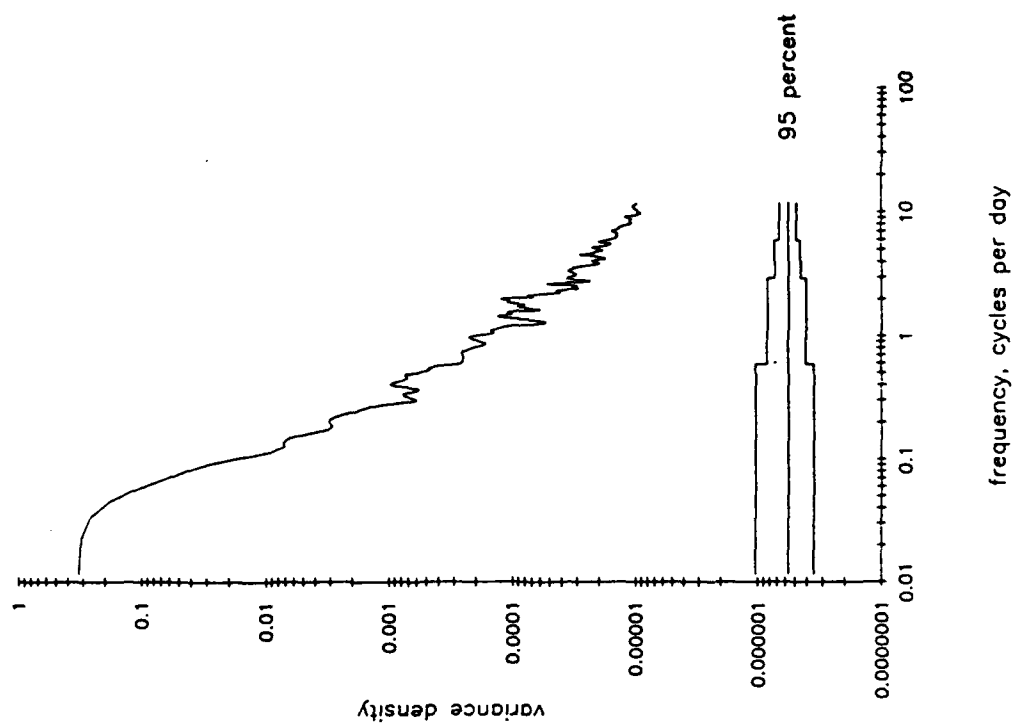
Unfiltered current. 3635 m at Mooring 13.
Both components

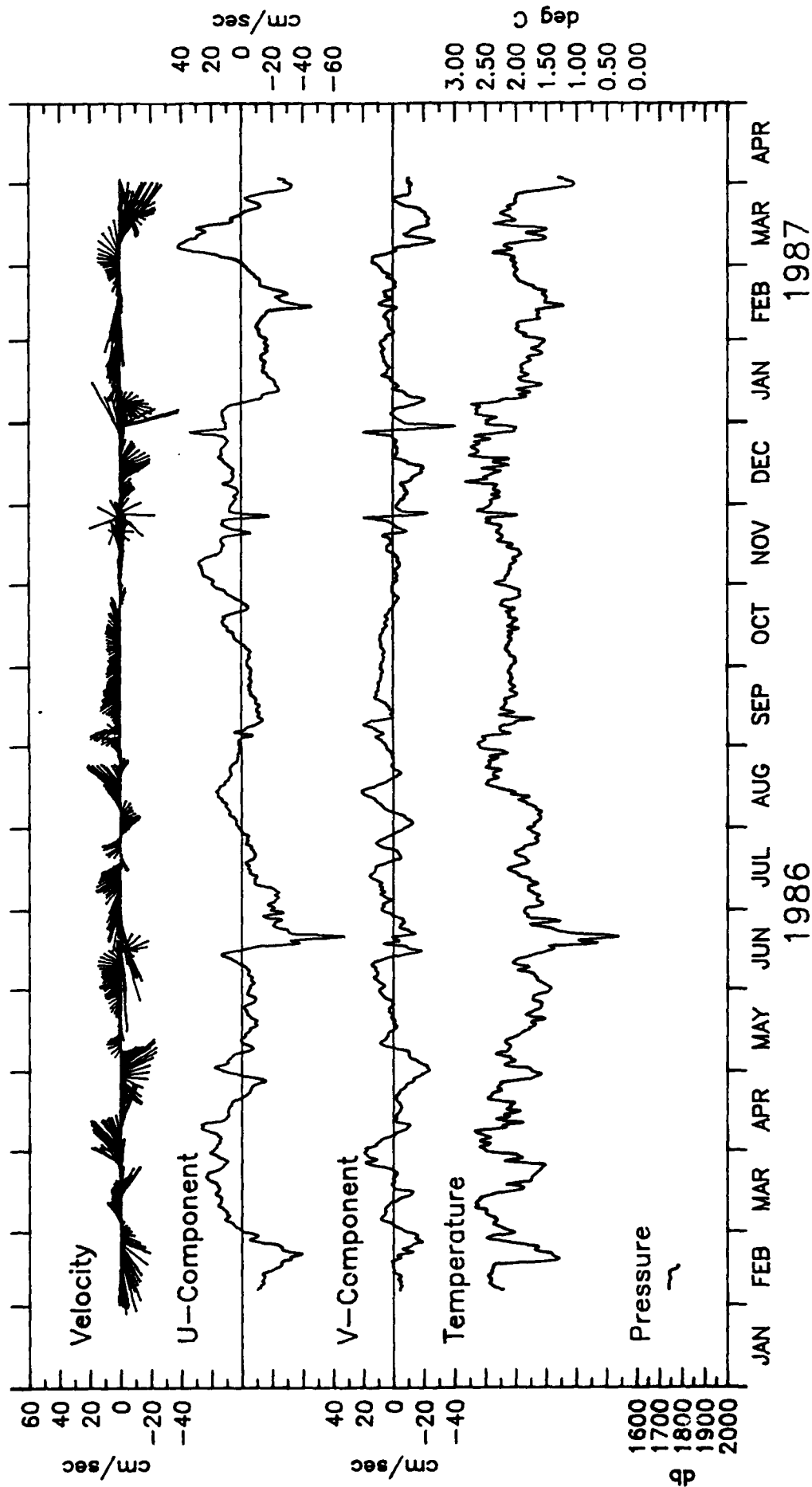


Unfiltered temperature. 1720 m at Mooring 13.

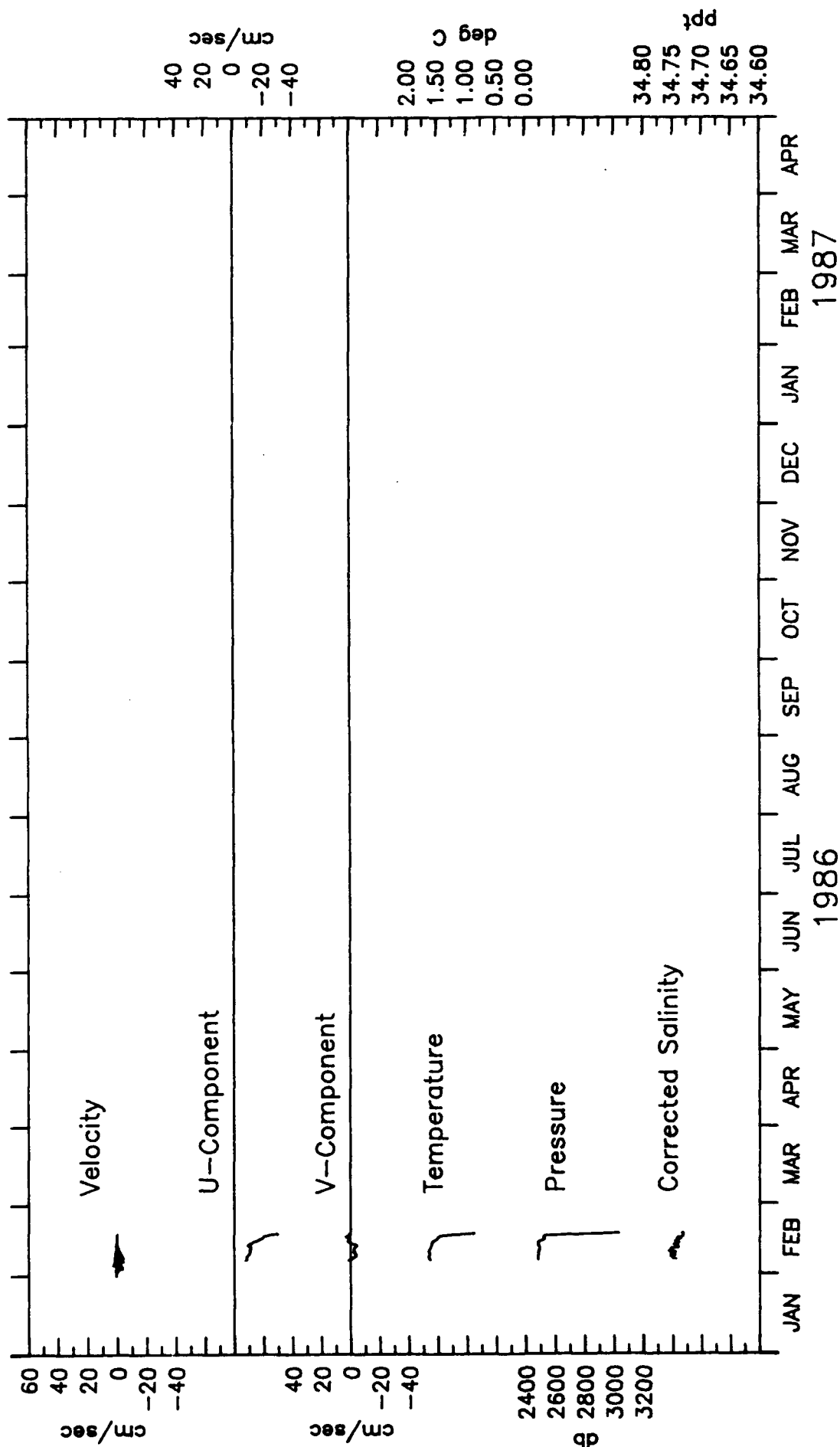


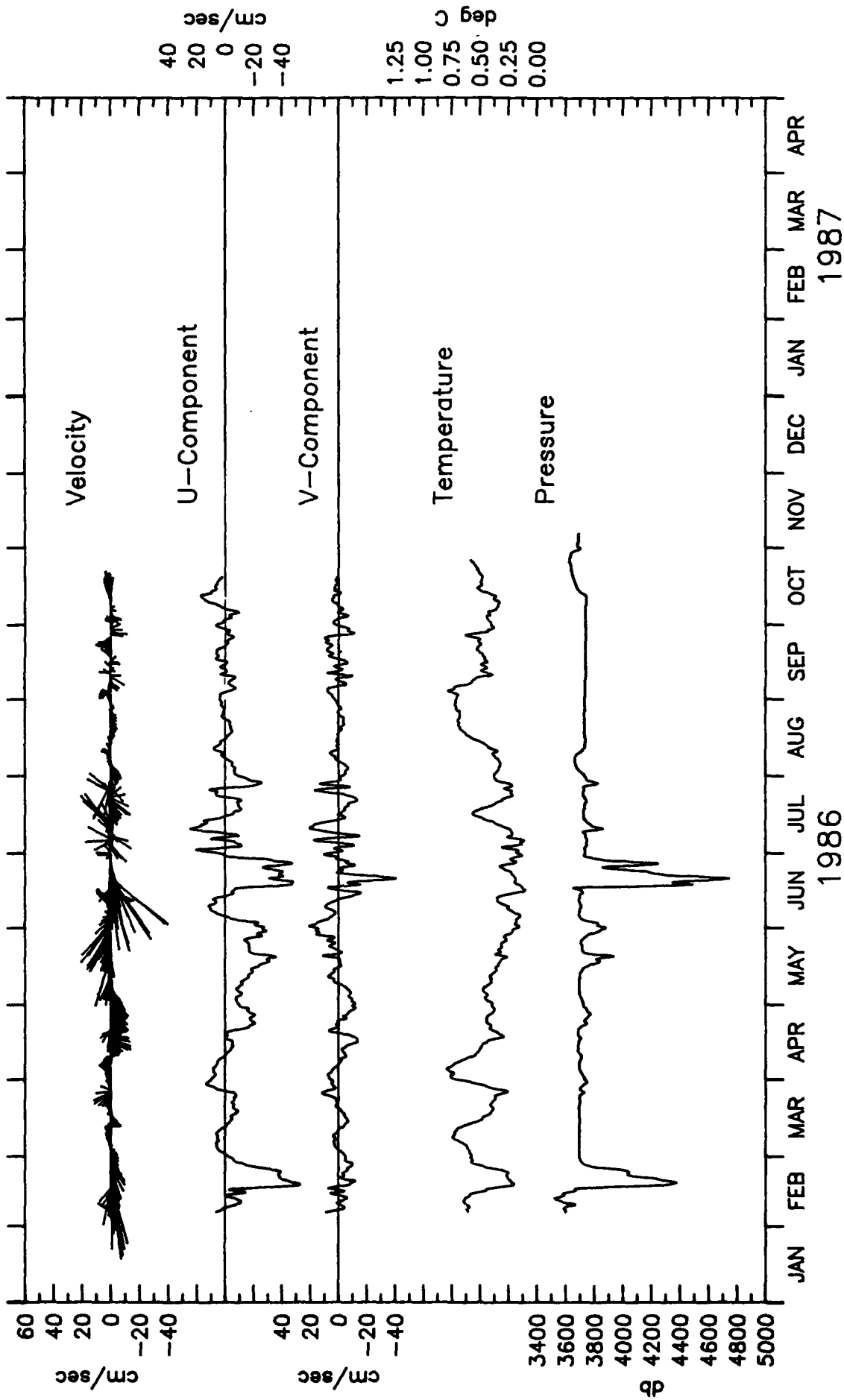
Unfiltered temperature. 3635 m at Mooring 13.



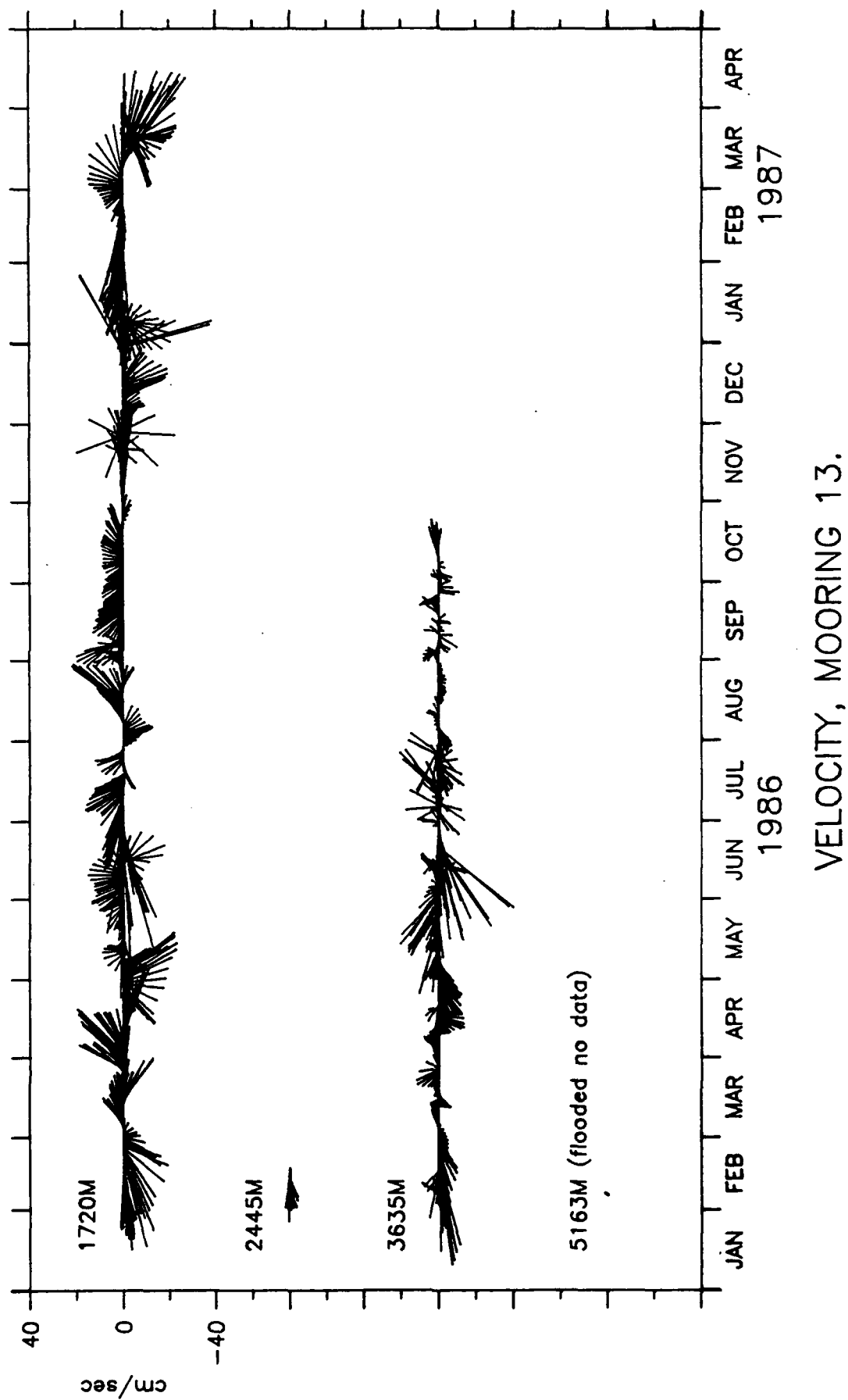


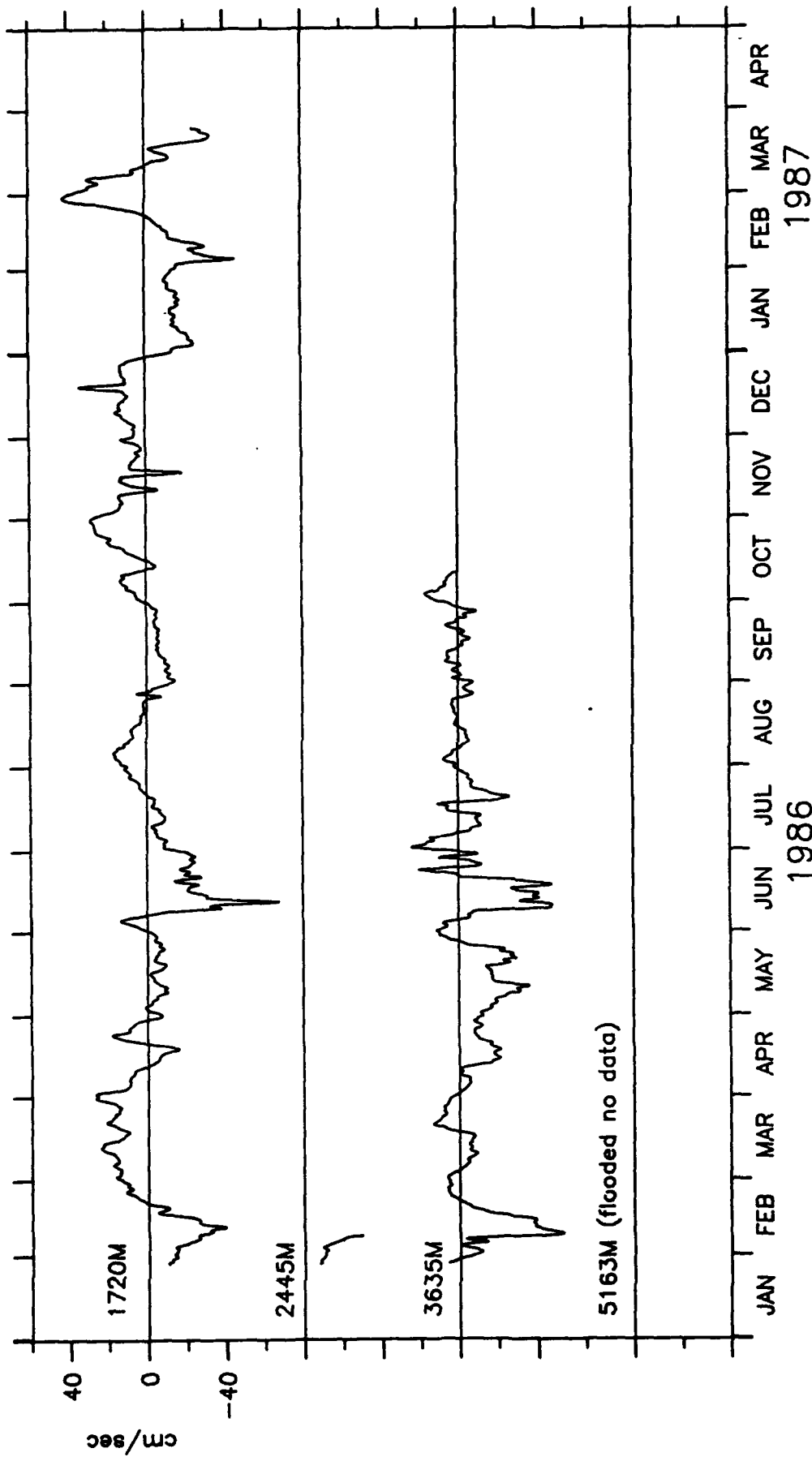
1720 M AT MOORING 13.



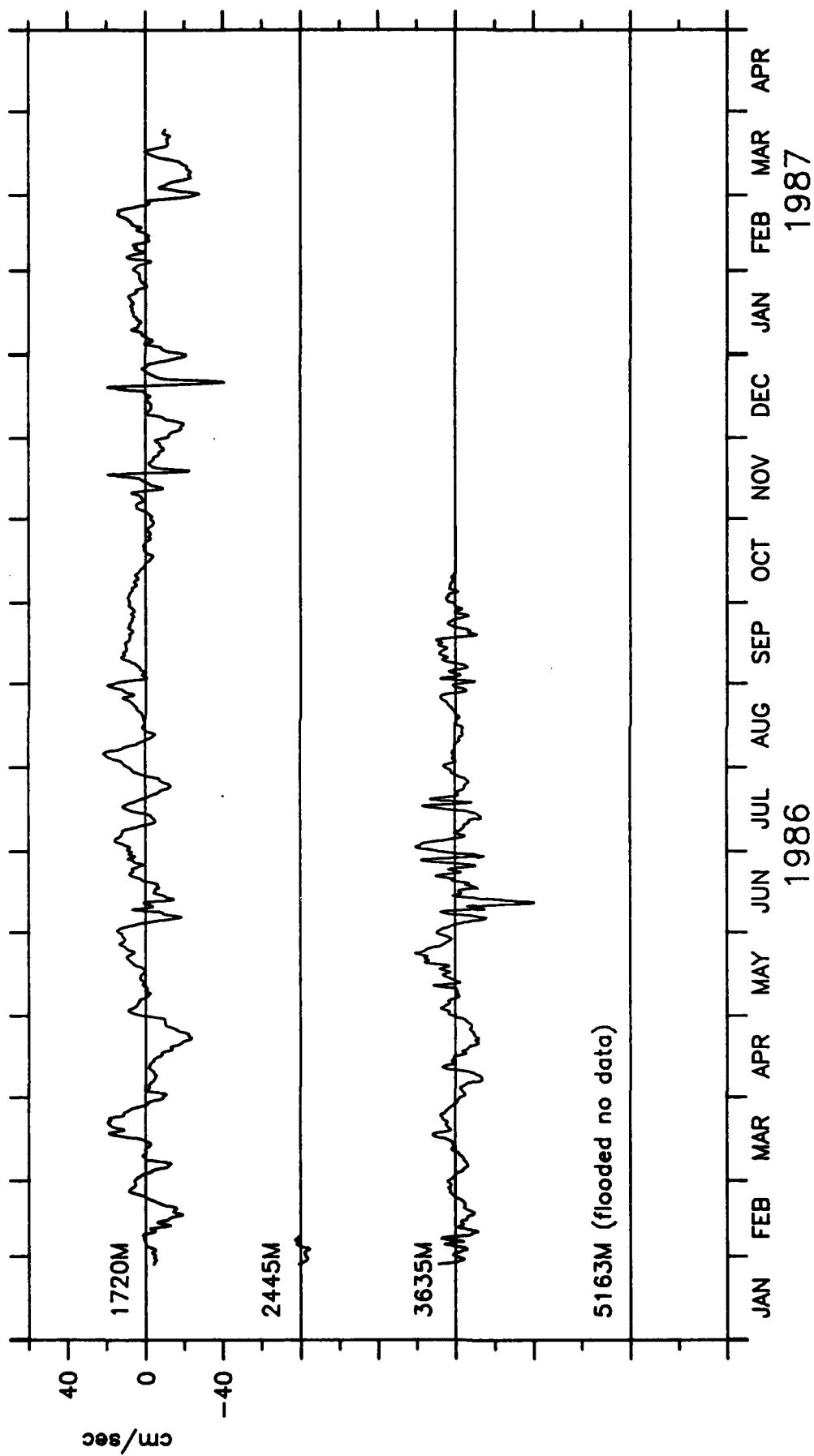


3635M AT MOORING 13.

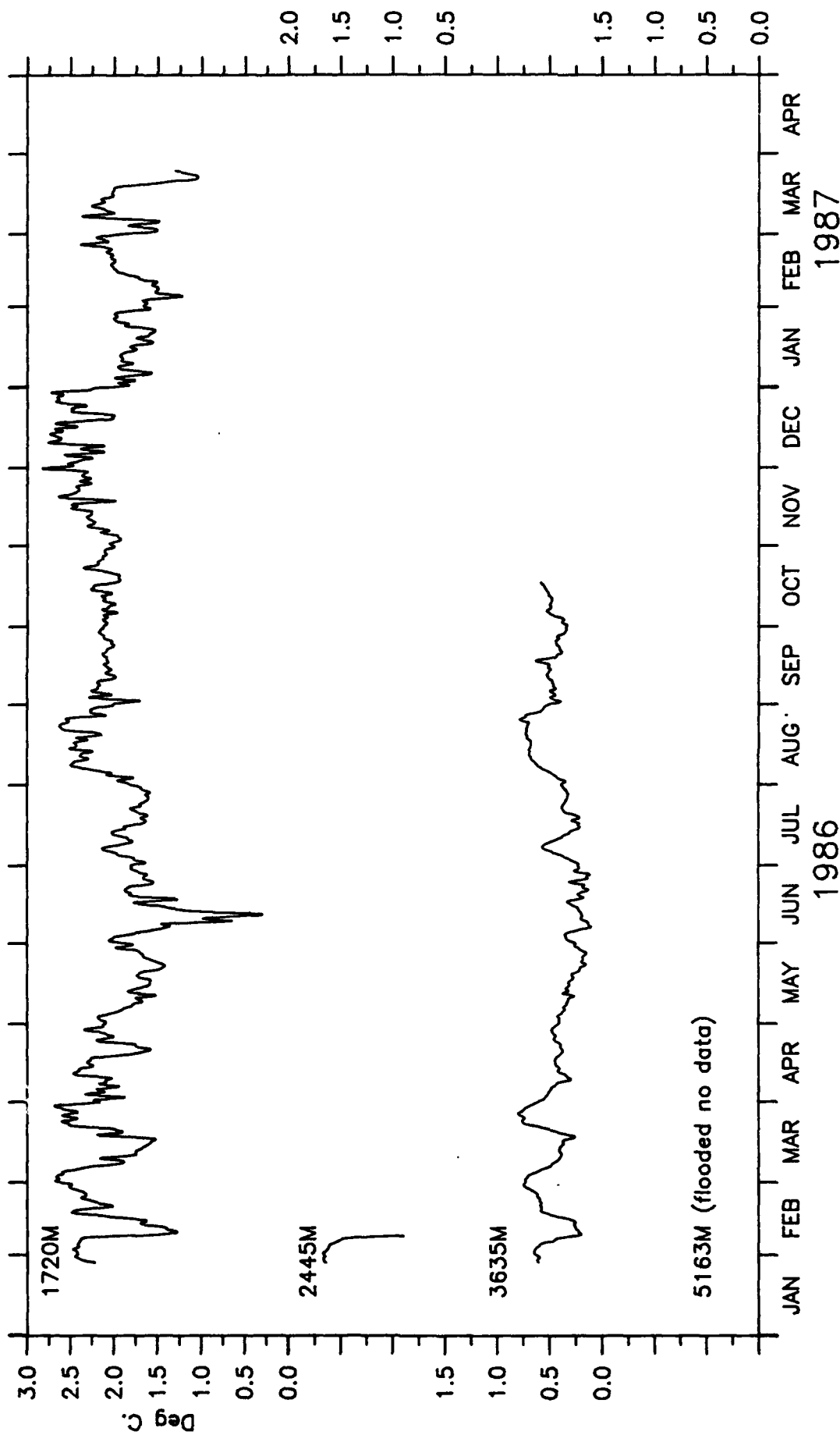




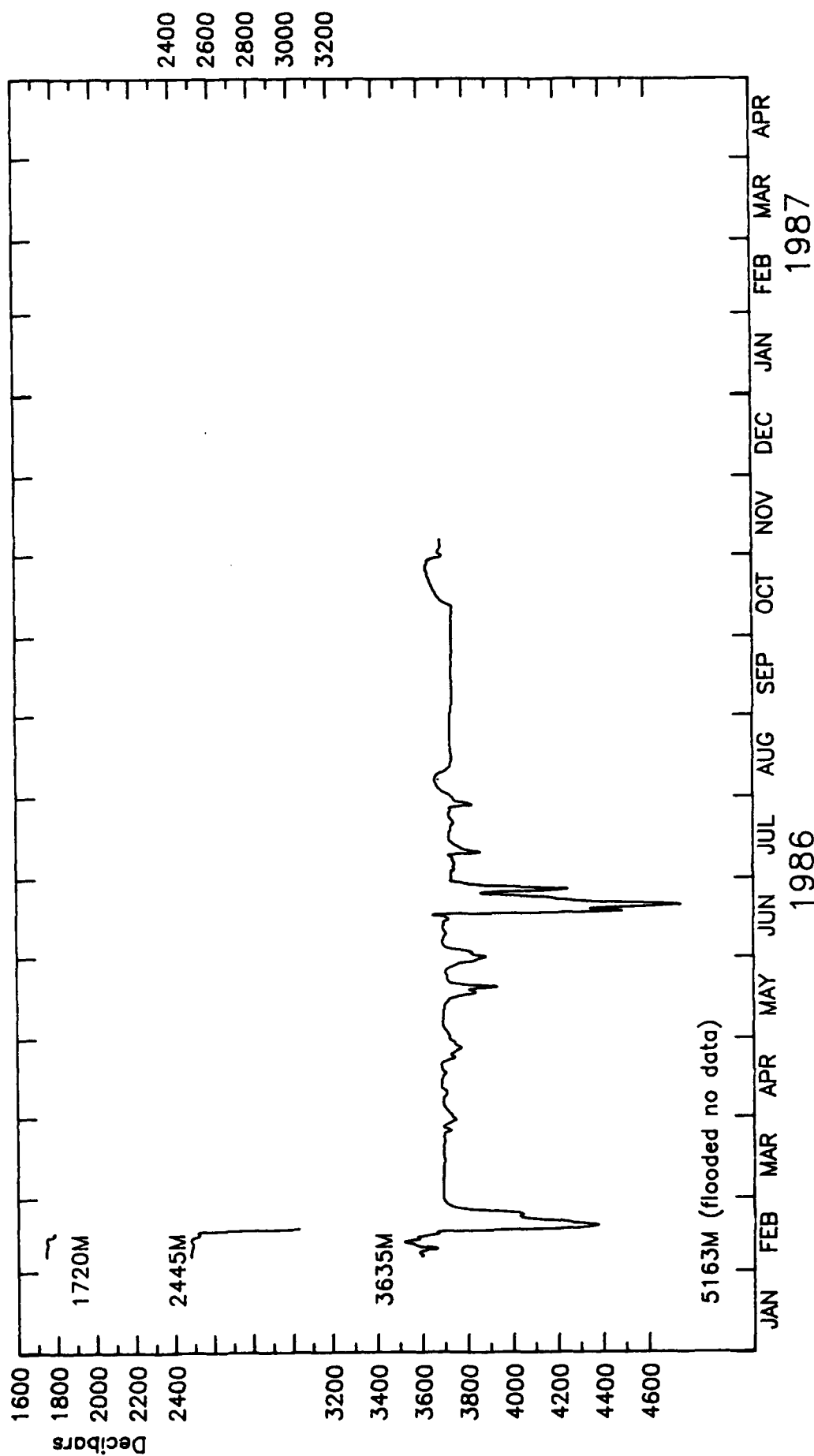
U-COMPONENT, MOORING 13.



V-COMPONENT, MOORING 13.



TEMPERATURE, MOORING 13.



PRESSURE MOORING 13.



MOORING 14

48°21.70'S, 35°08.19'W

1986 1987

JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR

2465 M

S
A
I
P
Sol

3455 M

S
A
I
P

5185 M

S
A
I

DATA RETURN FROM MOORING 14.

MOORING 14. UNFILTERED HOURLY DATA

2465M AT MOORING 14. 2000 5 FEB 86 - 1700 5 APR 87. TAPE 7216/11.

| | MEAN | SD | MIN | MAX | LENGTH | ENDS AT |
|---|---------|--------|---------|---------|--------|-----------------|
| S | 15.06 | 8.16 | 0.80 | 50.30 | 10174 | (1700 5 APR 87) |
| U | 5.43 | 10.94 | -37.70 | 42.60 | 10174 | (1700 5 APR 87) |
| V | 1.78 | 11.88 | -49.20 | 39.80 | 10174 | (1700 5 APR 87) |
| T | 1.46 | 0.31 | 0.36 | 2.16 | 10174 | (1700 5 APR 87) |
| P | 2593.16 | 107.68 | 2496.00 | 3557.00 | 10163 | (1700 5 APR 87) |

3455M AT MOORING 14. 2100 5 FEB 86 - 2100 6 DEC 86. TAPE 500/67.

| | | | | | | |
|---|---------|-------|---------|---------|------|------------------|
| S | 13.38 | 7.61 | 0.70 | 52.40 | 7297 | (2100 6 DEC 86) |
| U | 2.88 | 11.44 | -43.90 | 48.60 | 6820 | (0000 17 NOV 86) |
| V | 1.42 | 10.15 | -37.10 | 44.90 | 6820 | (0000 17 NOV 86) |
| T | 0.54 | 0.15 | 0.14 | 0.82 | 7297 | (2100 6 DEC 86) |
| P | 3592.57 | 96.00 | 3507.00 | 4562.00 | 7297 | (2100 6 DEC 86) |

5185M AT MOORING 14. 2000 5 FEB 86 - 1700 5 APR 87. TAPE 7769/4.

| | | | | | | |
|---|-------|-------|--------|-------|-------|-----------------|
| S | 13.53 | 7.61 | 0.80 | 48.10 | 10174 | (1700 5 APR 87) |
| U | 3.14 | 11.06 | -33.10 | 37.10 | 10174 | (1700 5 APR 87) |
| V | -0.72 | 10.40 | -37.20 | 35.20 | 10174 | (1700 5 APR 87) |
| T | 0.16 | 0.04 | -0.01 | 0.25 | 10174 | (1700 5 APR 87) |

(2465 M) SPEED BRIDGED LINES:

6773 - 6777 (0000 15 NOV 86 - 0400 15 NOV 86).

PRESSURE OFFSCALE, GAP LINES:

3185 - 3195 (1200 18 JUN 86 - 2300 18 JUN 86)

(3455 M) SPEED BRIDGED LINES:

2803 - 2812 (1500 2 JUN 86 - 0000 3 JUN 86)

CLOCK DEAD AT RECOVERY, RECORDS TERMINATED EARLY.

(Speed, u, and v are given in cm/sec, Temperature in °C, Pressure in DB).

MOORING 14. LLP FILTERED 6-HOURLY DATA

2465M AT MOORING 14. 0000 7 FEB 86 - 1200 4 APR 87. TAPE 7216/11.

| | MEAN | SD | MIN | MAX | LENGTH | ENDS AT |
|---|---------|-------|---------|---------|--------|-----------------|
| U | 5.45 | 10.63 | -28.52 | 31.98 | 1687 | (1200 4 APR 87) |
| V | 1.89 | 11.46 | -39.78 | 35.37 | 1687 | (1200 4 APR 87) |
| T | 1.46 | 0.30 | 0.46 | 2.07 | 1687 | (1200 4 APR 87) |
| P | 2590.26 | 98.00 | 2499.16 | 3241.63 | 1677 | (1200 4 APR 87) |
| S | 34.75 | 2.35 | 34.69 | 34.82 | 1673 | (1200 4 APR 87) |

3455M AT MOORING 14. 0000 7 FEB 86 - 1800 5 DEC 86. TAPE 500/67.

| | | | | | | |
|---|---------|-------|---------|---------|------|------------------|
| U | 2.87 | 11.15 | -30.79 | 33.57 | 1128 | (1800 15 NOV 86) |
| V | 1.47 | 9.89 | -33.58 | 36.60 | 1128 | (1800 15 NOV 86) |
| T | 0.54 | 0.15 | 0.18 | 0.79 | 1208 | (1800 5 DEC 86) |
| P | 3592.84 | 93.30 | 3511.61 | 4363.54 | 1208 | (1800 5 DEC 86) |

5185M AT MOORING 14. 0000 7 FEB 86 - 1200 4 APR 87. TAPE 7769/4.

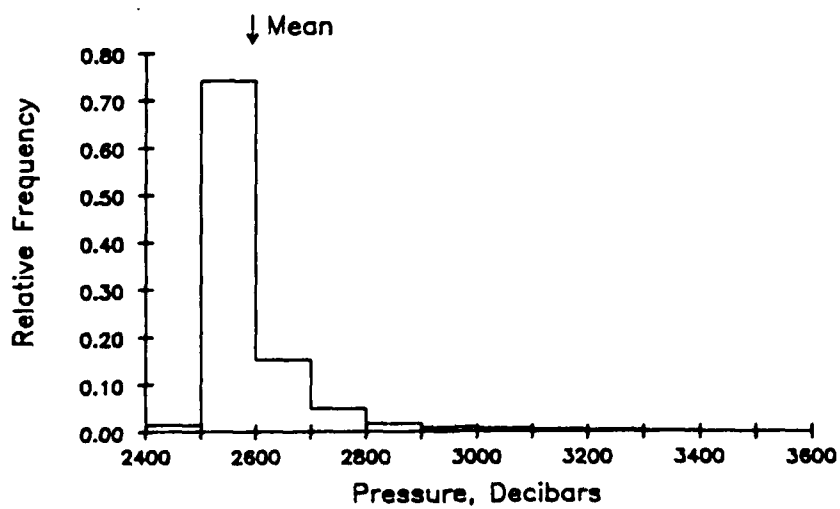
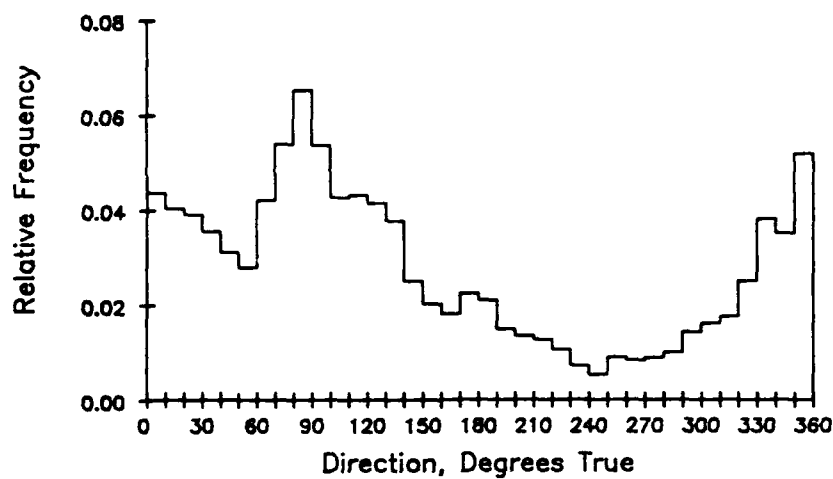
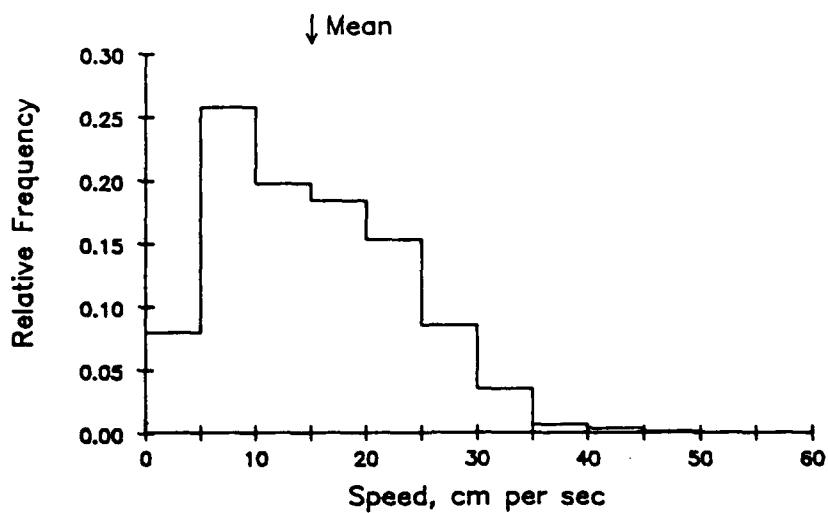
| | | | | | | |
|---|-------|-------|--------|-------|------|-----------------|
| U | 3.16 | 10.88 | -28.24 | 32.50 | 1687 | (1200 4 APR 87) |
| V | -0.62 | 10.09 | -34.15 | 29.16 | 1687 | (1200 4 APR 87) |
| T | 0.16 | 0.03 | 0.04 | 0.24 | 1687 | (1200 4 APR 87) |

(2465 M) SPEED BRIDGED IN UNFILTERED RECORD.
 PRESSURE OFFSCALE GAP IN UNFILTERED RECORD, GAP
 LLP LINES: 523 - 532 (1200 17 JUN 86 - 1800 19 JUN 86)
 GAPS IN SALINITY RECORD, BAD VALUES REMOVED

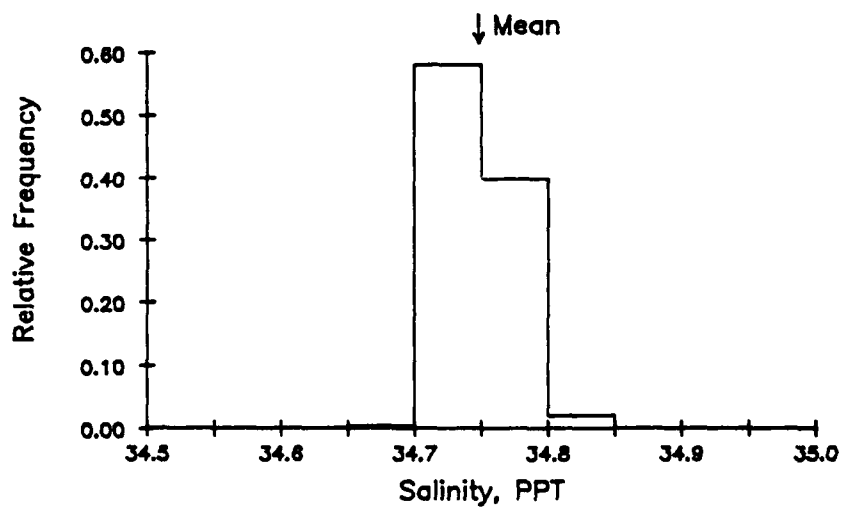
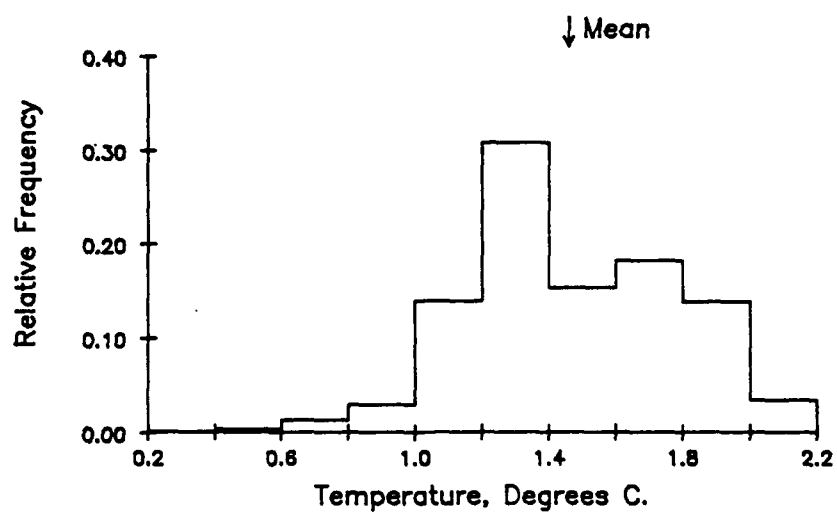
(3455 M) SPEED BRIDGED IN UNFILTERED RECORD.
 CLOCK DEAD AT RECOVERY, RECORDS TERMINATED EARLY DUE TO
 POOR QUALITY.

(Speed, u, and v are given in cm/sec, Temperature in °C, Pressure in DB, and Corrected Salinity in ppt.)

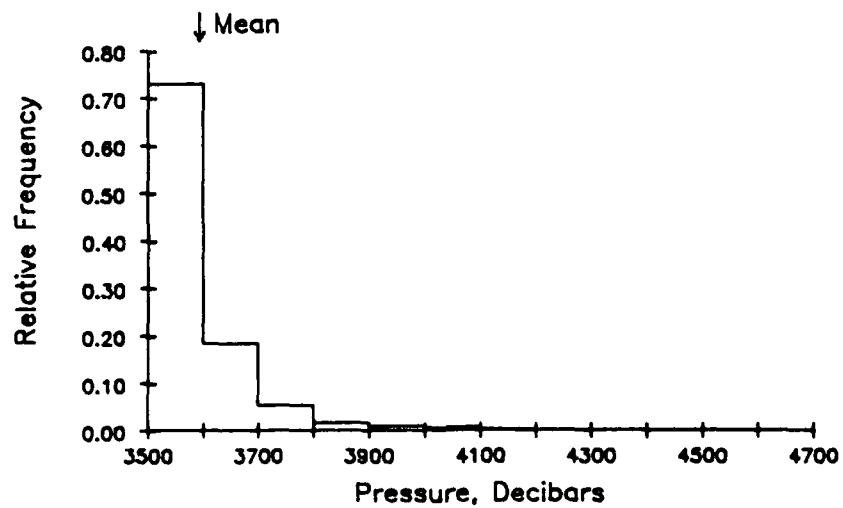
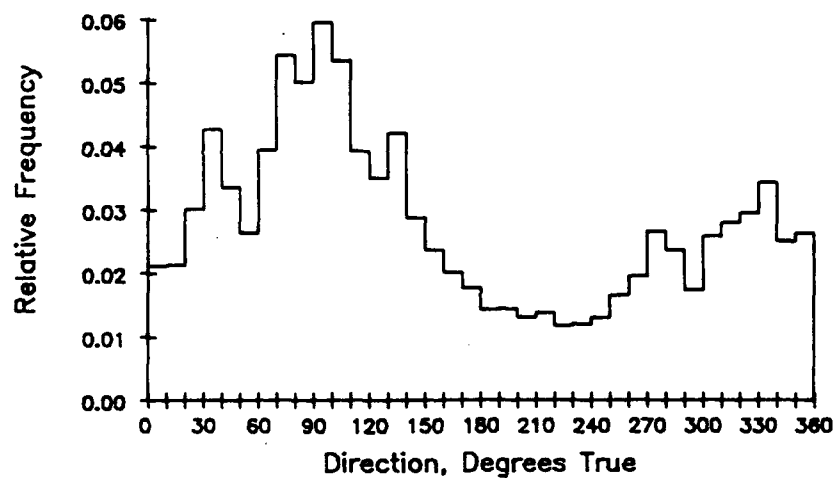
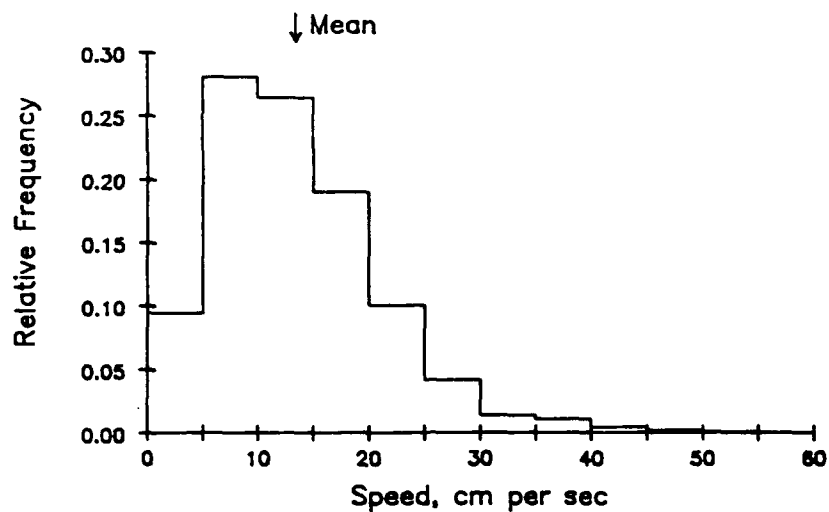
2465 METERS AT MOORING 14. TAPE 7216/11.



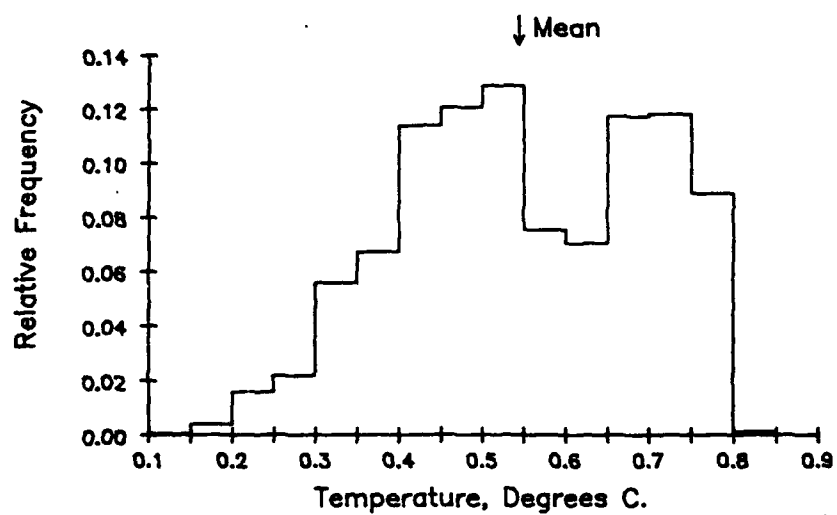
2465 METERS AT MOORING 14. TAPE 7216/11.



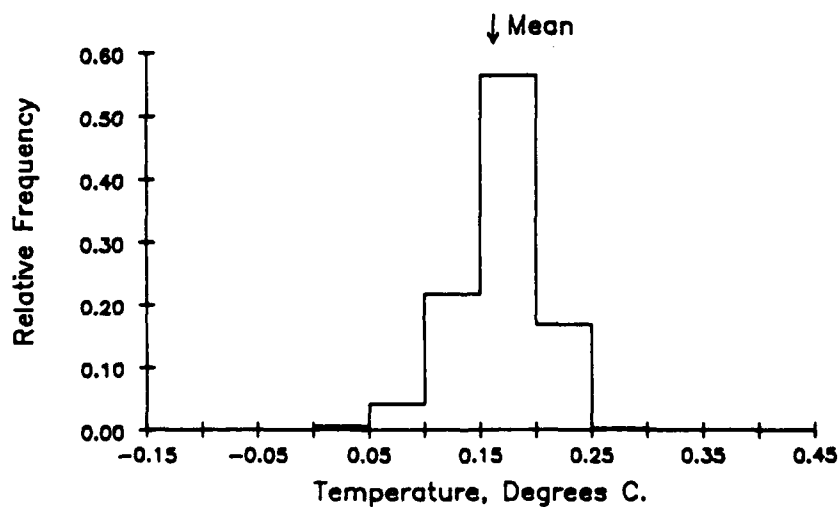
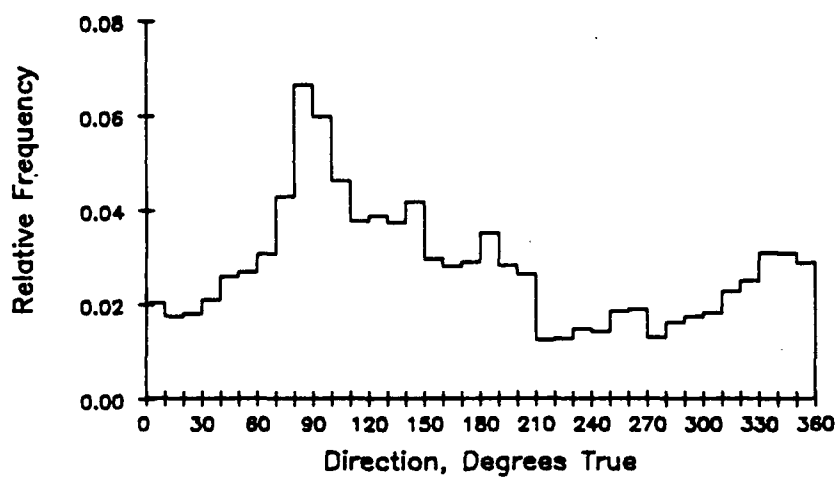
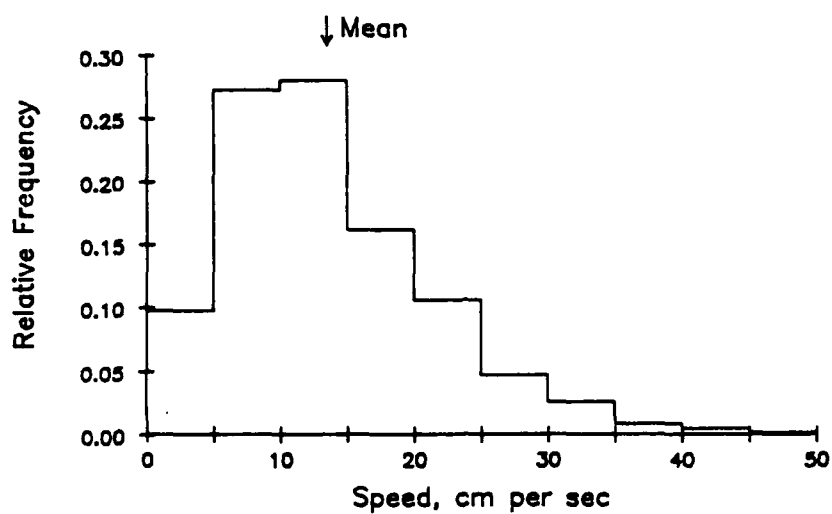
3455 METERS AT MOORING 14. TAPE 500/67.



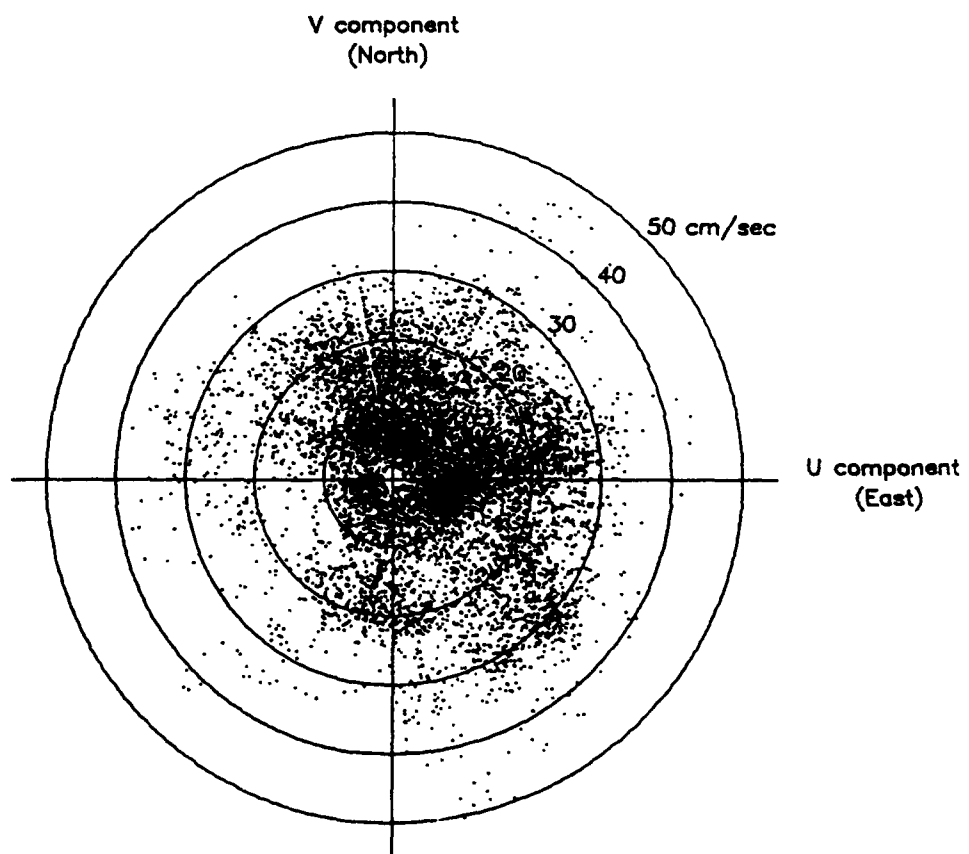
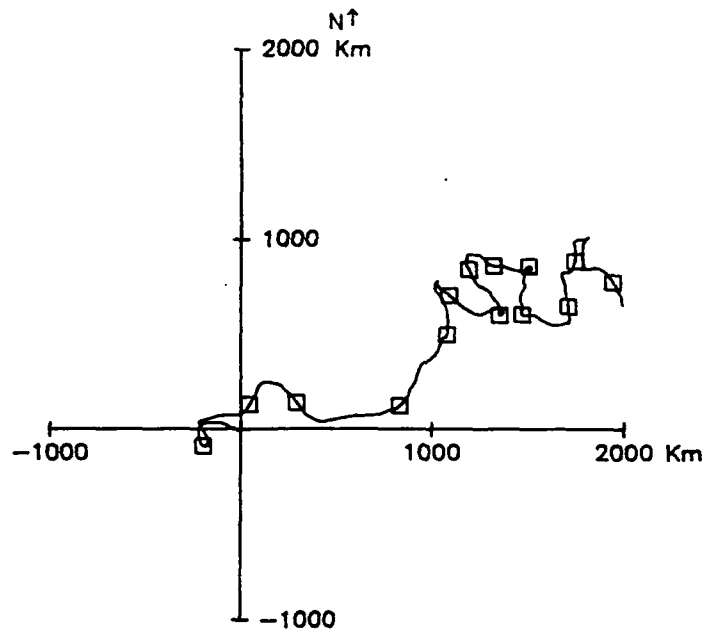
3455 METERS AT MOORING 14. TAPE 500/67.



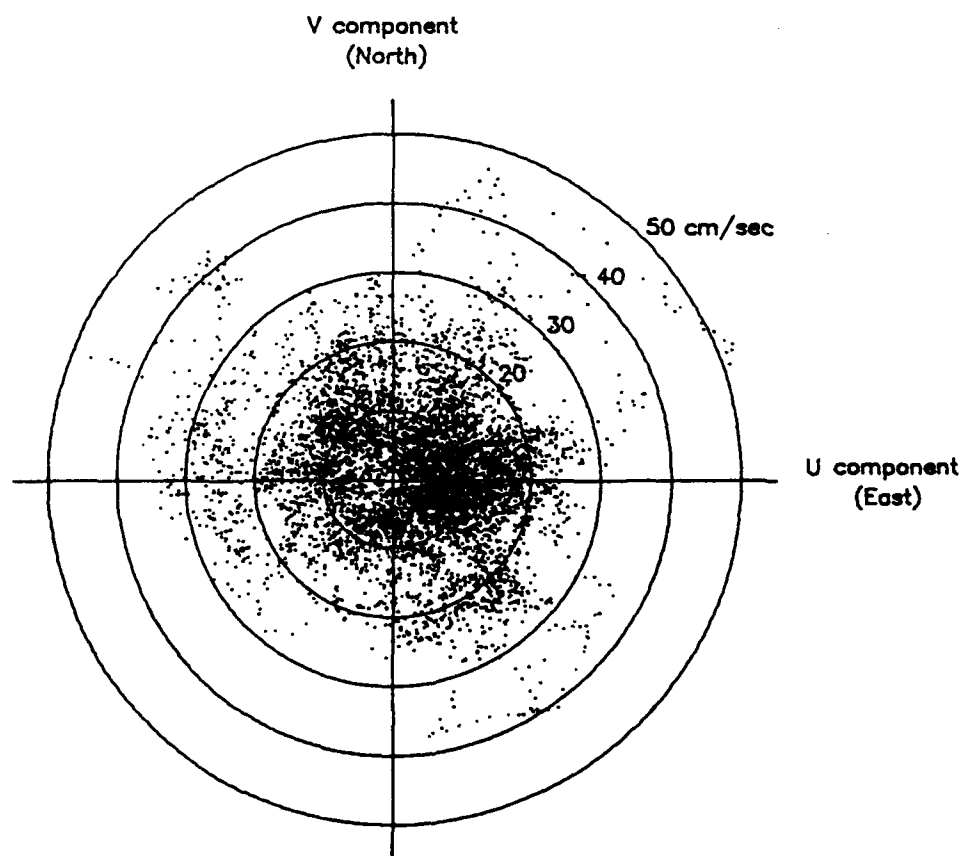
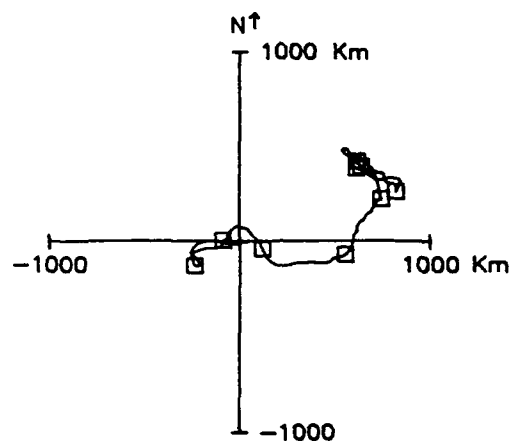
5185 METERS AT MOORING 14. TAPE 7769/4.



2465M AT MOORING 14. 5 FEB 86 - 5 APR 87. TAPE 7216/11.

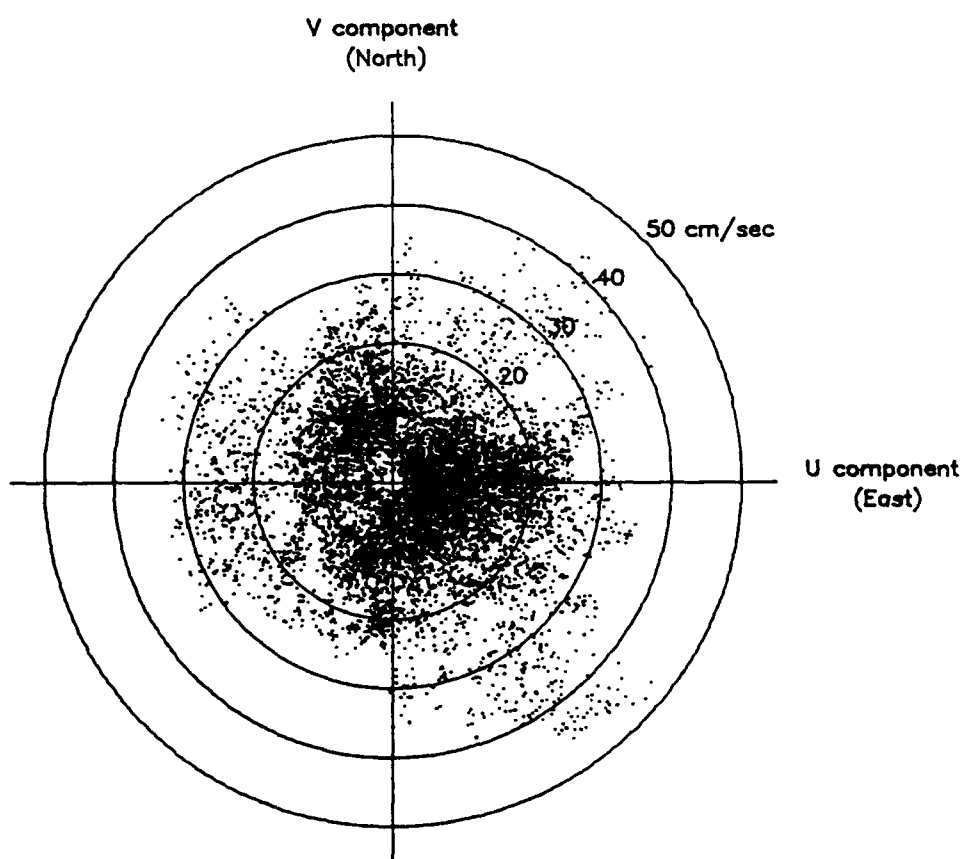
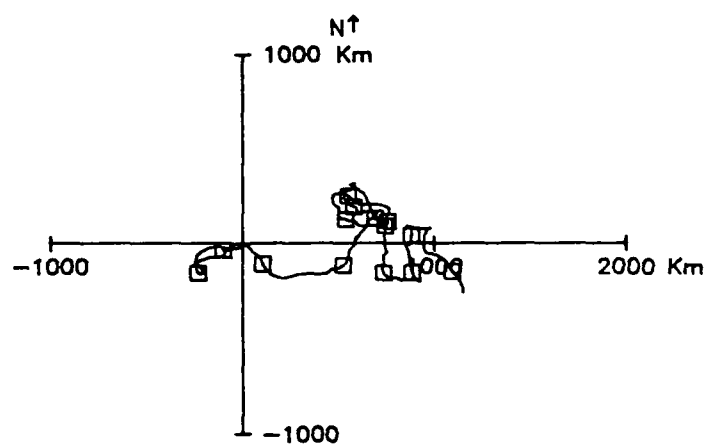


3455M AT MOORING 14. 5 FEB 86 - 17 NOV 86. TAPE 500/67.

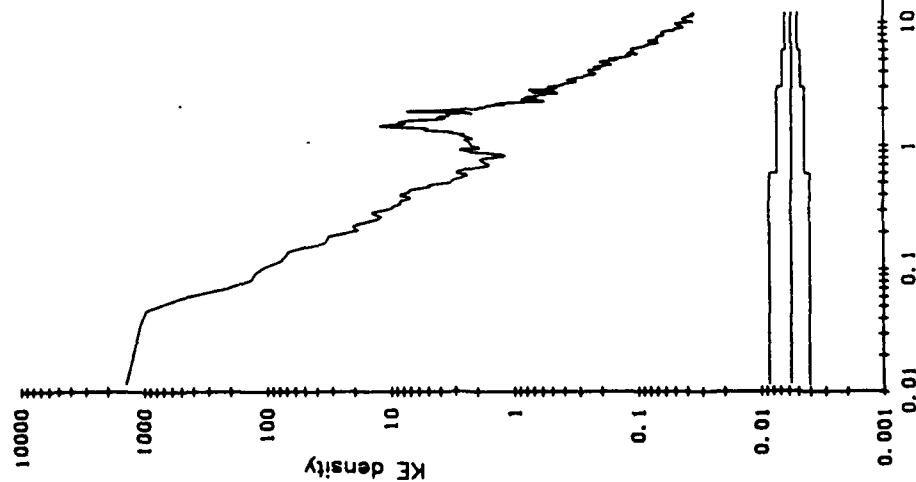


5185M AT MOORING 14. 5 FEB 86 - 5 APR 87.

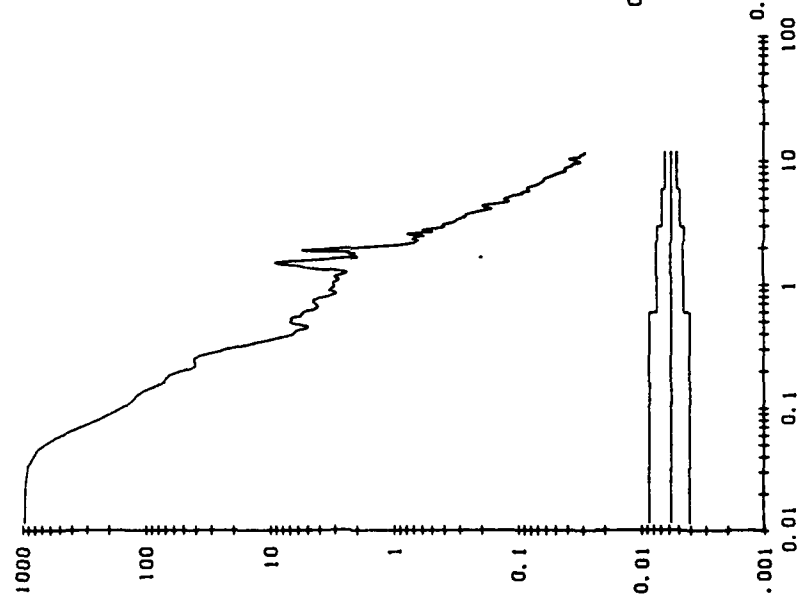
TAPE 7769/4



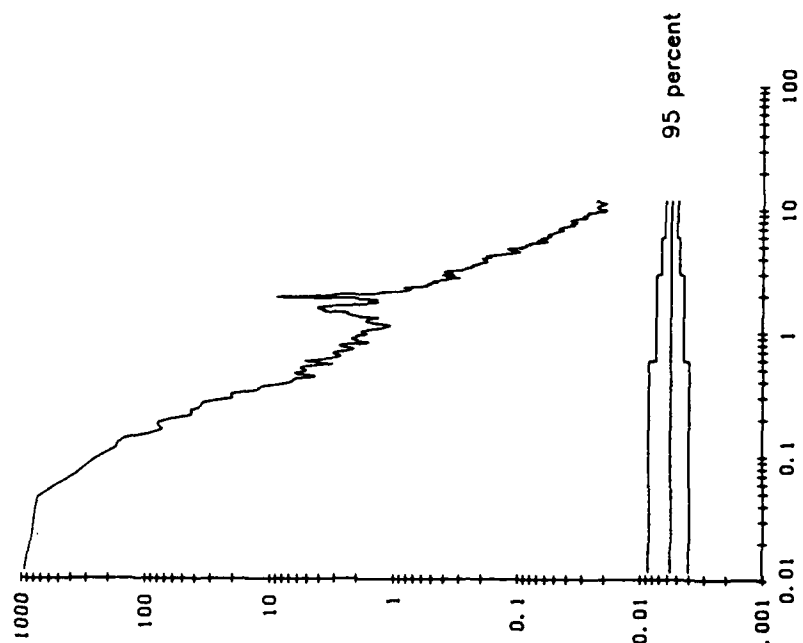
Unfiltered current. 2465 m at Mooring 14.
Both components



Unfiltered current. 3455 m at Mooring 14.
Both components



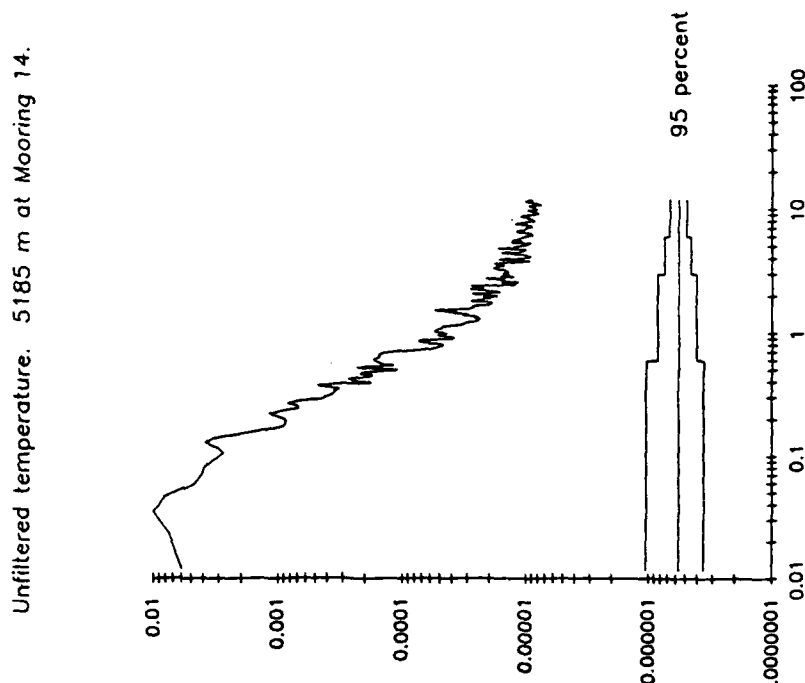
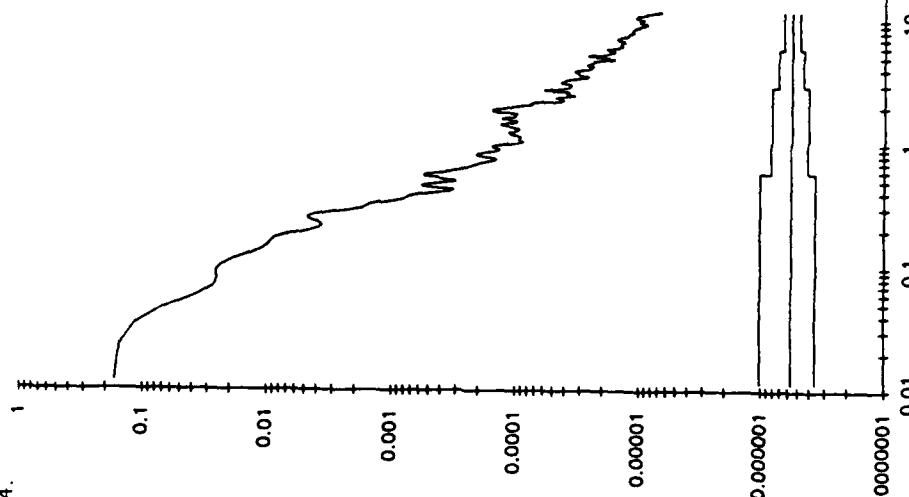
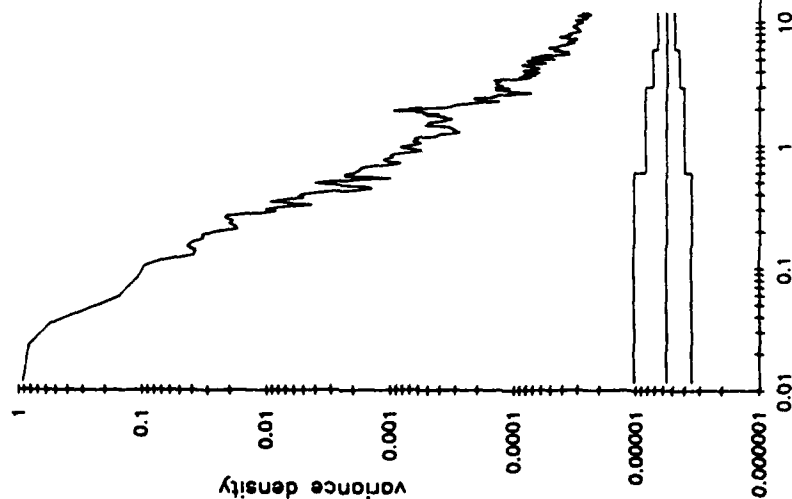
Unfiltered current. 5185 m at Mooring 14.
Both components



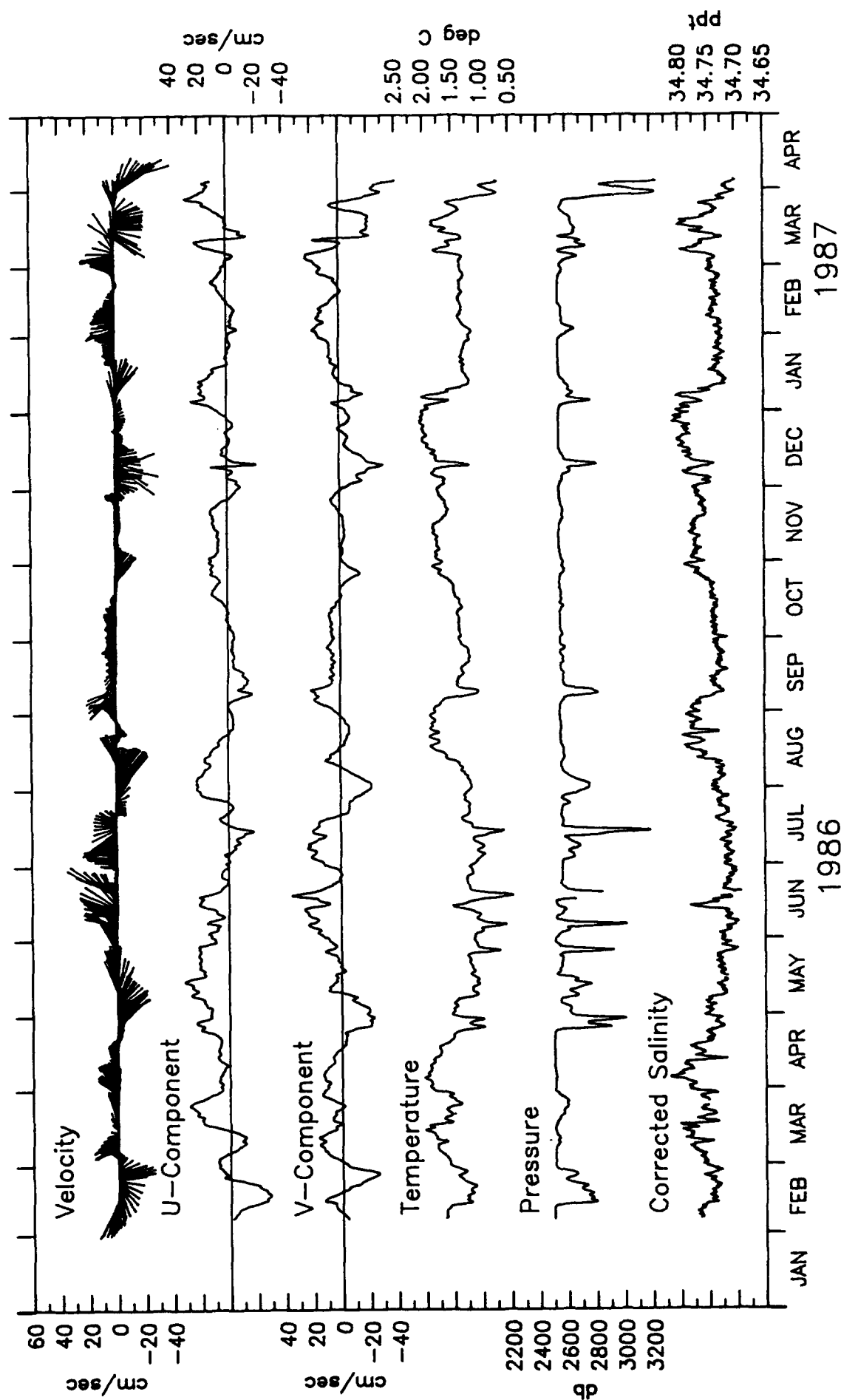
frequency, cycles per day

Unfiltered temperature. 3455 m at Mooring 14.

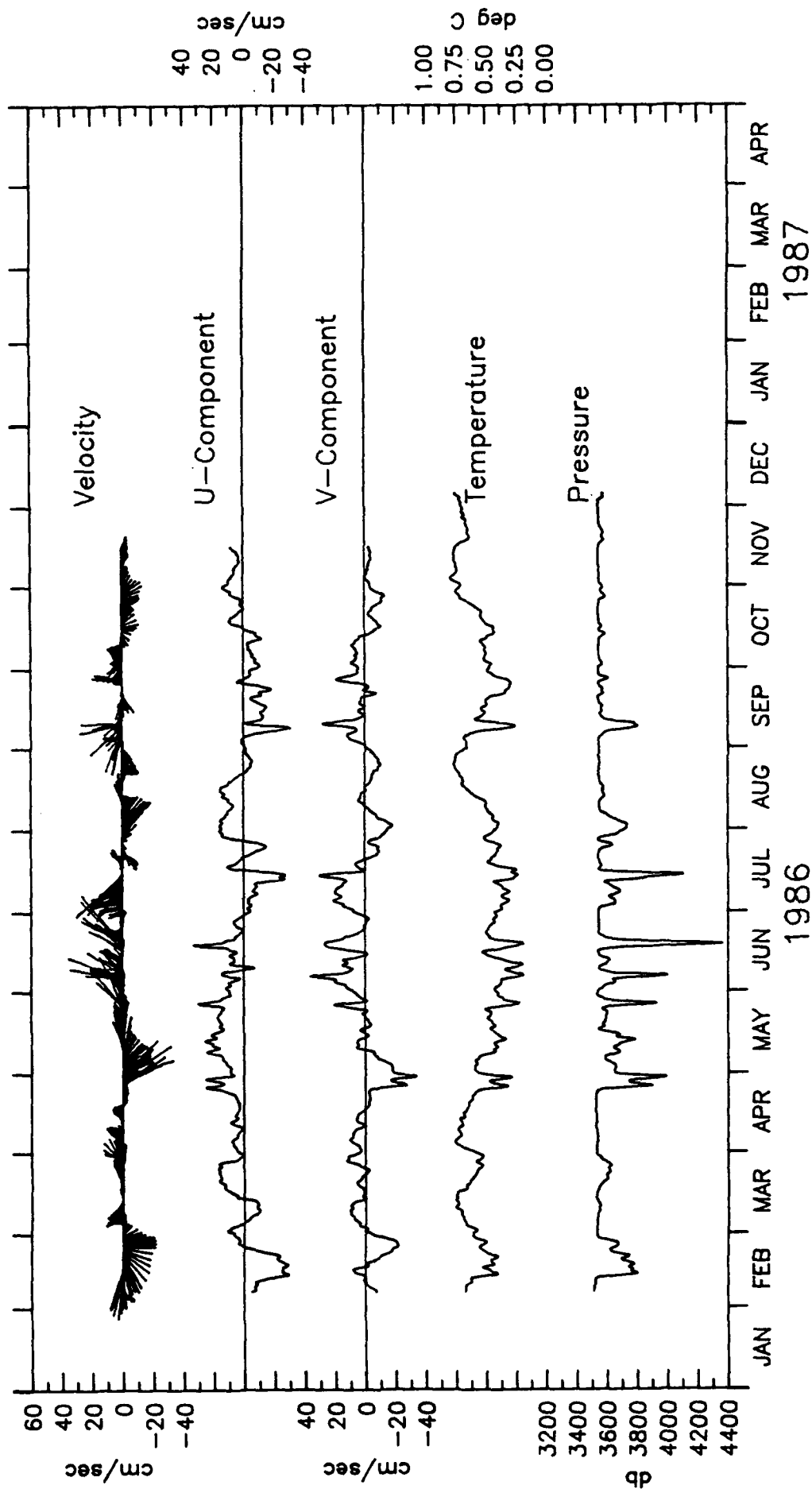
Unfiltered temperature. 2465 m at Mooring 14.



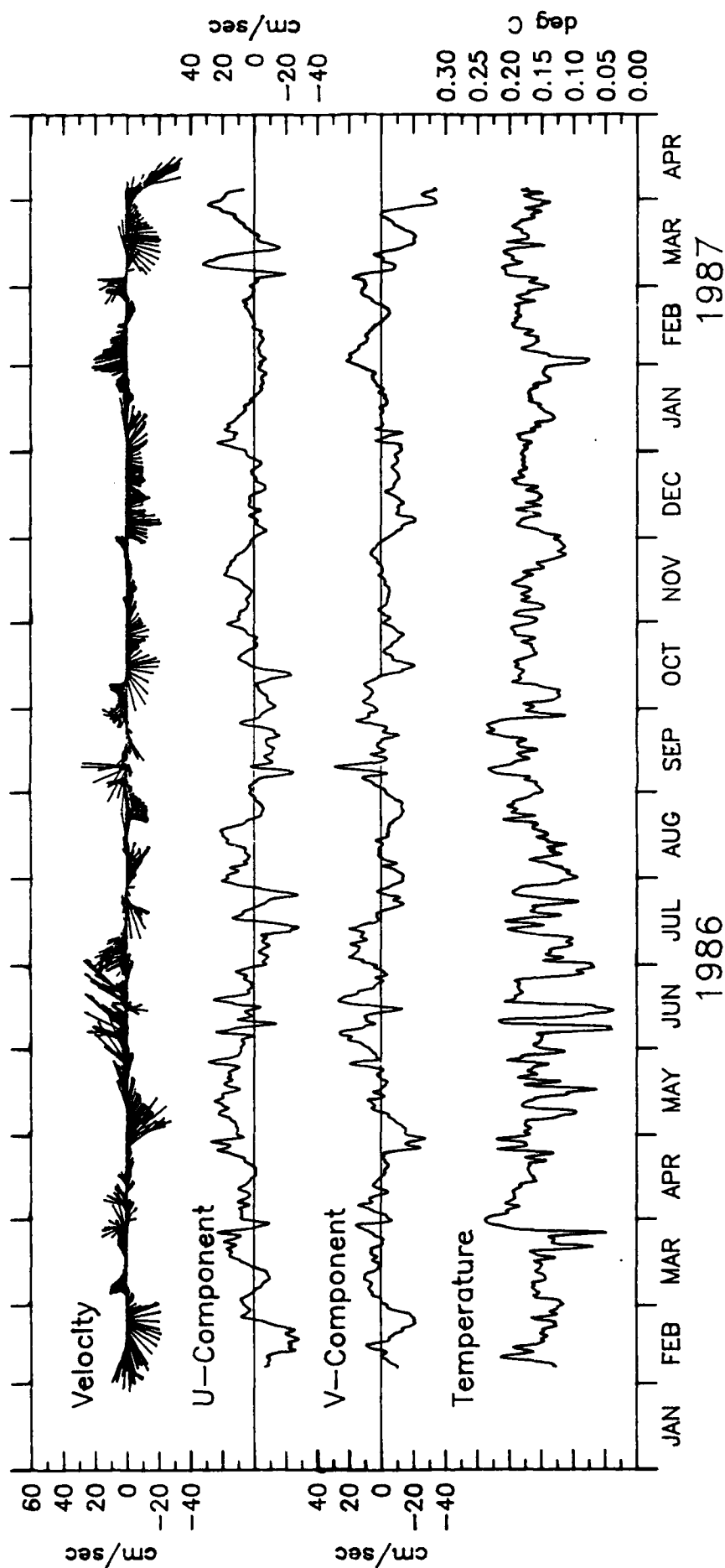
frequency, cycles per day



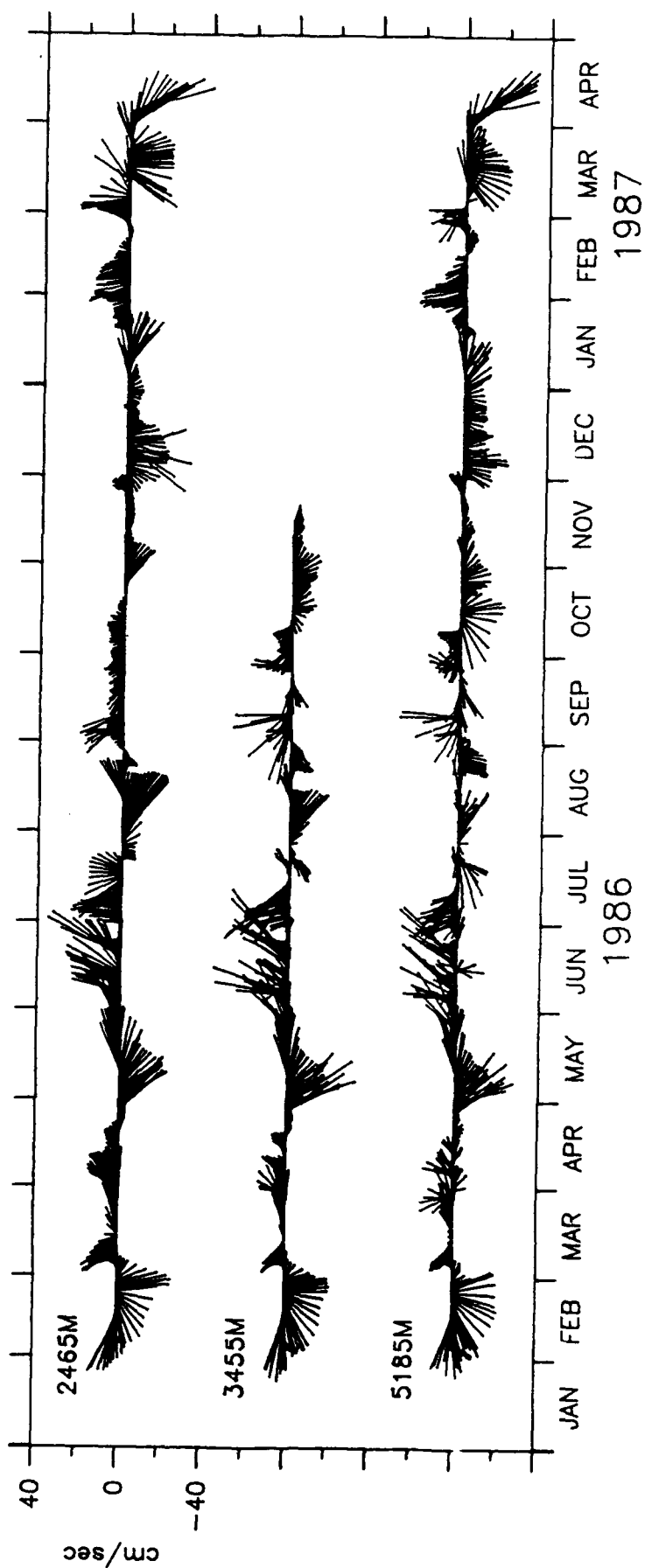
2465 M AT MOORING 14.



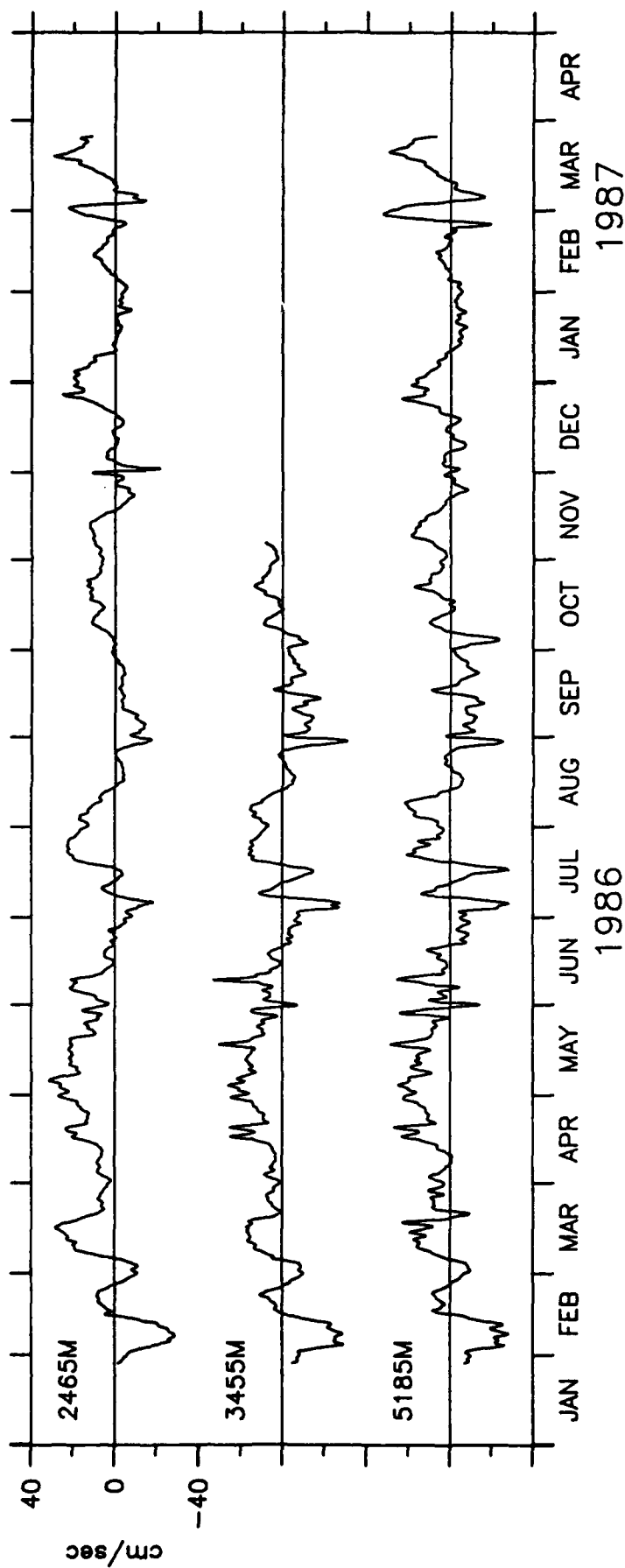
3455 M AT MOORING 14.



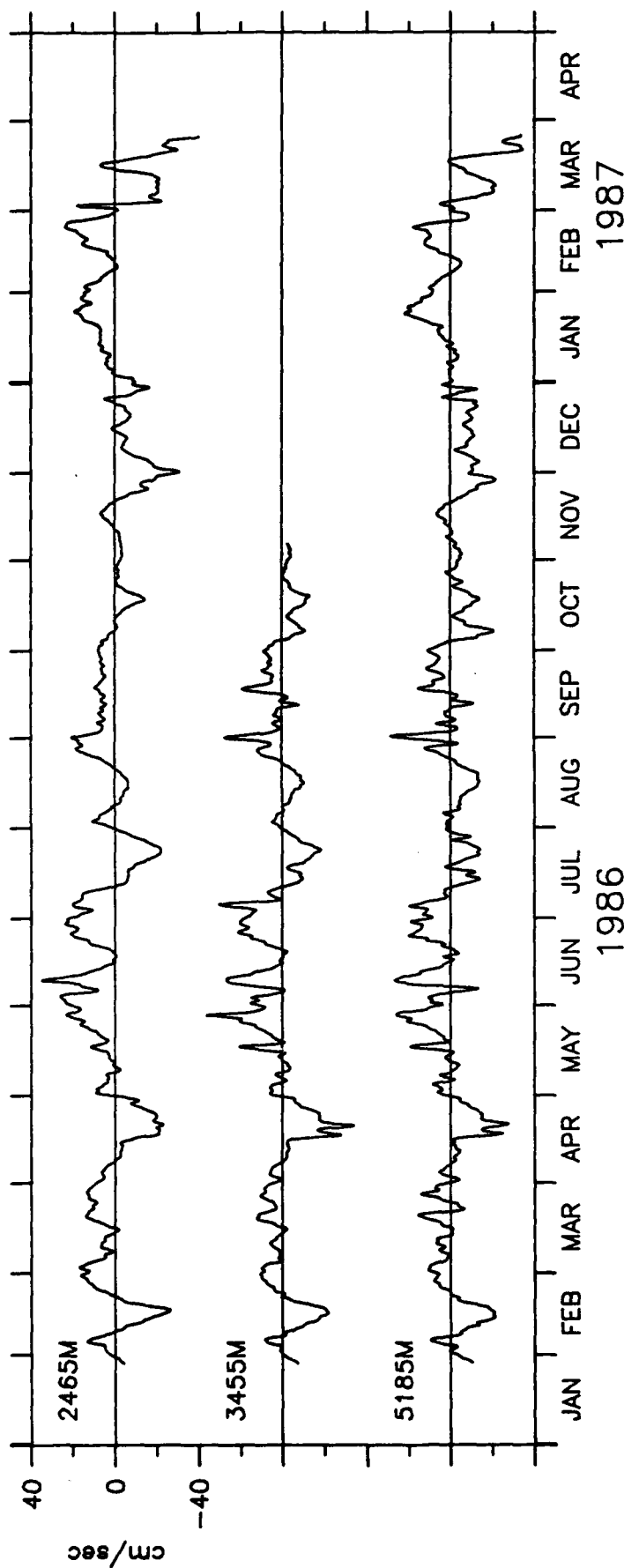
5185M AT MOORING 14.



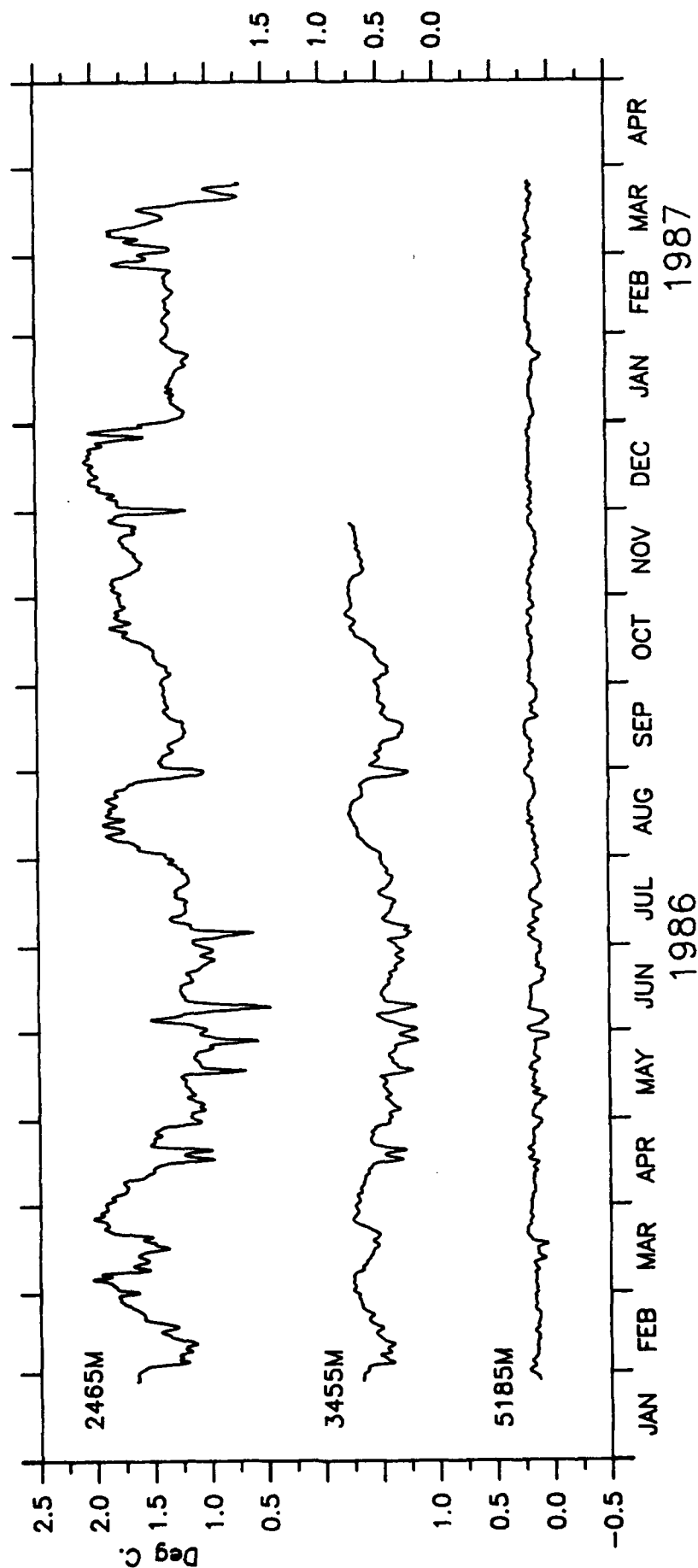
VELOCITY, MOORING 14.



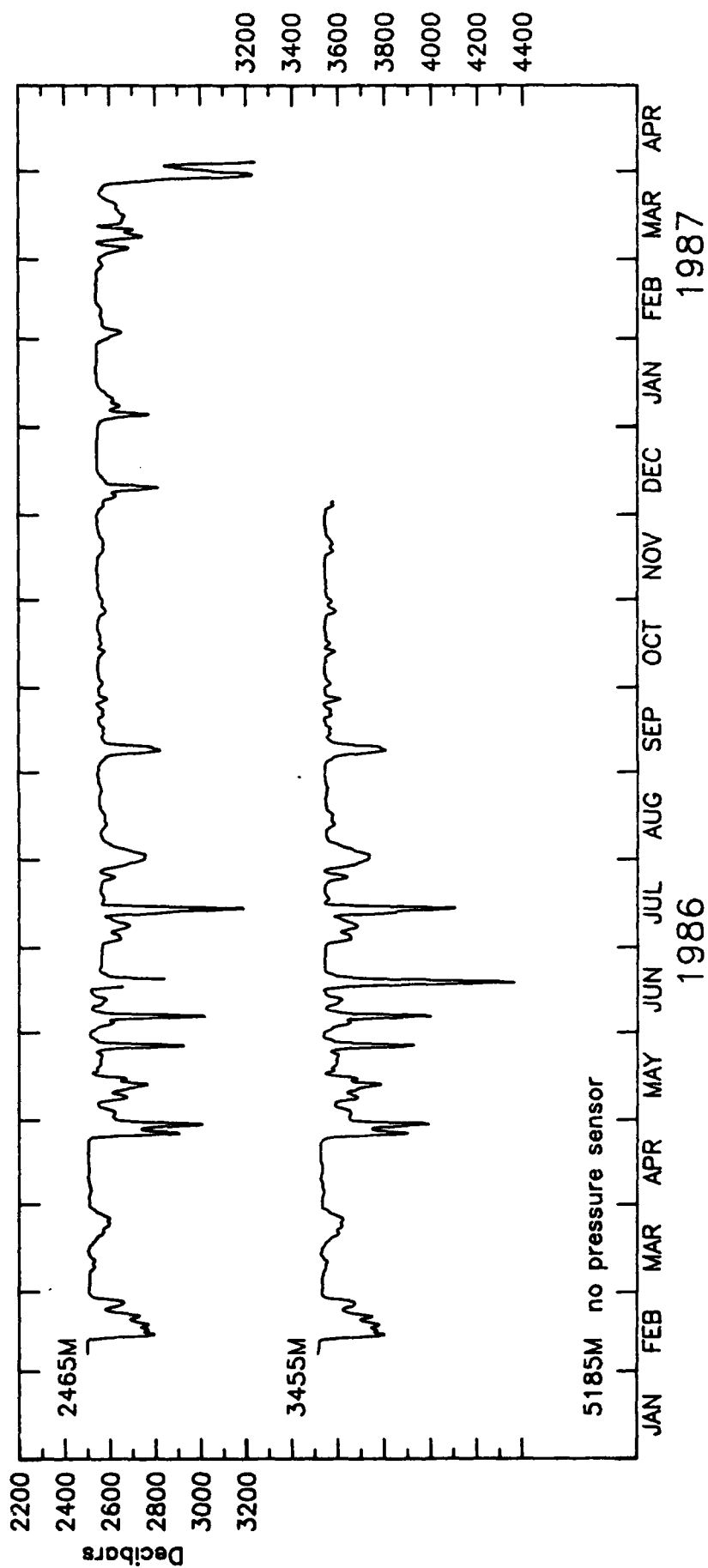
U-COMPONENT, MOORING 14.



V-COMPONENT, MOORING 14.



TEMPERATURE, MOORING 14.



PRESSURE MOORING 14.